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0635318

105-N & 109-N SAFE STORAGE ENCLOSURE (SSE) FINAL ROOM STATUS REPORT

SECTION 1 OF 11

0635318

105-N & 109-N SAFE STORAGE ENCLOSURE (SSE)

FINAL ROOM STATUS

REPORT

AUGUST 2012



PREPARED BY: Joe Delaney

105-N & 109-N SSE FINAL ROOM STATUS REPORT

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105-N & 109-N SAFE STORAGE ENCLOSURE (SSE) FINAL ROOM STATUS REPORT

1.0 PURPOSE OF FINAL ROOM STATUS REPORT

The purpose of the final room status report is to document the current as-left condition of the accessible rooms in the 105-N and 109-N facilities at final turnover. The majority of the rooms in the Zone I area inside the building shield walls were not included in the SSE work scope nor in this report due to high radiation levels in these areas.

2.0 PROCESS USED FOR FINAL ROOM TURNOVERS & RESULTS

Facility History

The 105-N Reactor Facility was a 4,000-megawatt (thermal) nuclear reactor designed to operate as a dual purpose reactor. The reactor core is a graphite-moderated, light water-cooled, horizontal pressure-tube facility designed to produce plutonium. By-product steam was routed to the nearby, now demolished, 185-N Hanford Generating Plant (HGP). The HGP was an electrical generation facility owned and operated by the Washington Public Power Supply System that produced electricity for use by the public. Construction of the 105-N Reactor Facility began in December 1959 and the reactor operated from 1963 through 1987.

On the south side of the 105-N facility is the 109-N Heat Exchanger Building, which shares a common wall with 105-N. Reactor primary coolant water from 105-N was circulated through to steam generators located in the 109-N Building. Steam from the steam generators was either routed to the HGP to generate electricity or sent to the dump condensers inside the 109-N Facility.

Deactivation of 105-N and 109-N was completed in 1998, which included shutdown and isolation of all operational systems, cleanup of most radiological and hazardous wastes, inventory of remaining hazardous materials, sealing access areas, and securing both buildings.

Interim Safe Storage (ISS) Facility Modifications

Structural modifications included removal of the fuel storage basin, ancillary support buildings, and most portions of the 105-N Building structure outside of the shield walls that surrounded the reactor. In addition, the heat exchanger building was removed up to the steam generator cells. This portion was left because of high radiation levels in the cells and structural integrity concerns with the reactor building because of the shared wall. The pressurizer and its surrounding building were left in place as part of the SSE and a new roof installed where it extends above the main roof of the 109-N Building.

The C Elevator pit, as shown on Figure 3-4 in Section 3.3, was stabilized by first filling it with low-density grout and then placing a concrete cap over it. The drain line that emptied into the lift station was drained and then cut and sealed with a mechanical blind flange near the west side of the SSE facility.

A new steel roof was installed over the remaining structures using the existing concrete shield walls as the "new" outside walls of the buildings to enclose both the reactor and heat exchanger buildings within a weather-protected structure. All existing siding was removed and new siding installed over structural-steel framing/supports. The roof panels of both buildings are constructed of a preformed aluminum-zinc alloy coated steel standing-seam roof system, 22 gauge. The siding panels are a 22 gauge preformed aluminum-zinc alloy coated steel siding system. The 109-N roof panels are laid over steel joists supported by a grid of steel beams and steel columns. The 105-N Building roof panels are laid over a grid of standard steel beams and purlins supported by steel columns. The original 105-N roof has been left in place and the remaining portion of the 109-N Building was demolished down to the 40-ft level.

A new access room was constructed on the southeast corner of the 109-N Building (See Figure 3-1 and 3-12 in Section 3.3) to provide entrance into the steam generator cells if required.

Penetrations into the shield walls were sealed to prevent animal and insect intrusion and water in-leakage into the final safe storage structure. Accessible loose contamination within the shield walls was either removed or fixed to the greatest extent possible. A remote monitoring system (for temperature and water intrusion), permanent power, and lighting were installed, as well as a provision for ventilation air exchange if required.

An entryway into the 105-N Reactor at ground level is located on the east side of the 105-N Building (Room 172) to allow access (See Figure 3-2 in Section 3.3). In addition, the steel cover plate at the entrance to Corridor No. 7, located adjacent to the reactor entrance at Room 172, could be unbolted and the security welds removed to have access to the discharge side of the reactor, if considered necessary. Security welds have been installed on all building shield doors to the Zone 1 areas for both 105-N and 109-N and the access door to Stair #6 in Room 172, El.(+)5'-0" inside 105-N, and the exterior access doors for both 105-N and 109-N facilities have been locked.

Figures 3-1 through 3-12 in Section 3.3 "105-N & 109-N Building Sketches" provide sketches showing the remaining layout at each floor level within the 105-N and 109-N Safe Storage Enclosure (SSE) facility.

Work on the 105-N Reactor Facility and the 109-N Heat Exchanger Building in the 100N Area at the DOE Hanford Site was performed under the following three (3) subcontracts:

1. Subcontract No. 0100N-SC-G0506: Asbestos and Hazardous Waste Removal for 105-N, 109-N, 1605NE, 105NA, and 1722N

- 2. Subcontract No. C00N508A00: Demolition and Safe Storage Enclosure (SSE) Construction for 105-N and 109-N Buildings
- 3. Subcontract No. J027807A00: 105-N and 109-N SSE West Side Final Construction

Final Room Turnover Verifications

After the scope of work within a room had been completed and prior to sealing the room, a final room turnover verification of the room was performed checking for the following items:

- Room systems in stable conditions
- Trash, debris, and combustibles removed
- Biological hazards removed and disinfected
- Final Radiological Surveys completed
- Final photo's or video completed
- Final inventory of hazardous materials left in place, if any
- Accessible Shield Doors- Radiological locks removed, and permanent security welds on doors completed

The team that was invited to participate in the final room turnover verifications included Washington Closure Hanford (Subcontract Technical Representative, Construction Subcontract Engineer, ISS Engineer, Environmental Protection Lead, Radiological Engineer), and a project representative from the U. S. Department of Energy and the Washington State Department of Ecology.

The results from the final room turnover for each room were documented on a Final Room Turnover Checklist which are shown in Section 3.2 and summarized in Section 3.1. The final building walk down and turnover for the 105-N/109-N SSE was completed July 23, 2012 with representatives from the U.S. Department Of Energy-Richland Office, Washington State Department of Ecology, WCH SM&U, and other members of the WCH project team to verify the SSE facility was complete.

Results

- 1. Summary of the results from the final room turnover verifications are shown in Section 3.1.
- 2. Results from individual room final room turnover verifications are shown in Section 3.2.
- 3. Sketches showing the layout at each floor level within the SSE facility are shown in Section 3.3.
- 4. Radiological survey results for the rooms and areas at final turnover are shown in Section 3.4.
- 5. Indexes for digital photos from final room turnover are shown in Section 3.5 and 3.6.

- 6. Prints of the digital photos from final room turnover are provided in Section 3.7 and 3.8.
- 7. CD's with digital photos from final room turnover are listed in Section 3.9.
- 8. CD's with digital photos from final room turnover are provided in Section 3.11.
- 9. DVD Video's from the final room turnover are listed in Section 3.10.
- 10. DVD Video's from the final room turnover are provided in Section 3.12.

3.0 <u>ATTACHMENTS</u>

$3.1 \,\, \underline{105\text{-N} \& 109\text{-N} \, \text{SSE FINAL ROOM TURNOVER SUMMARY LIST}}$



Subcontract No.: C00N508A00 Subcontractor: WDC

105N/109N SSE Final Room Turnover Summary List



Washington Closure Hanford Job No.: 14655

109N Bulldi	ng			
Room No.	Description	Date Signed	Rad Survey	Hazardous Material Left in-Place/Comments
			RSR-100ISS-10-0697	
103	Water Qual. Lab, El. 0'-0"	05/17/11	RSR-100ISS-11-0164	Two (2) Lead Blankets in NE corner of room/No other issues
			RSR-100ISS-10-0697	
104	Change Rm., El. 0'-0"	05/17/11	RSR-100ISS-11-0164	No Materials/No Issues
		1	RSR-100ISS-10-0697	
105	Grab Sample Rm., El. 0'-0"	05/17/11	RSR-100ISS-11-0164	No Materials/No Issues
	L		RSR-100ISS-10-0697	
106	RAD Chem. Lab, El. 0'-0"	05/17/11	RSR-100ISS-11-0164	No Materials/No Issues
208	Non-RAD Sampling & Chem. Lab, EL. 12'-8 1/2"	09/07/10	RSR-100ISS-10-0725	No Materials/No Issues
307	Non-RAD Sampling Rm., El. 25'-0 1/2"	09/07/10	RSR-100ISS-10-0725	No Materials/No Issues
Roof	109N Access BLDG., EL. (-) 16'-0" 109N SSE, EL. 40'-0"	03/15/12	RSR-100N-11-2333	No Materials/No Issues
Roof	Pressurizer, EL. 84'-0"	03/15/12	RSR-100ISS-11-0452	No Materials/No Issues
Stair 7	El. 0'-0" to 24'-0"	04/14/11 09/07/10	RSR-100ISS-11-0104 RSR-100ISS-10-0725	No Materials/No Issues
				No Materials/No Issues
105N Buildi			T =	
Room No.	Description	Date Signed	Rad Survey	Hazardous Material Left in-Place/Comments
4	Ball Control Rm., El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	No Materials/No Issues
	<u> </u>			Two (2) Lead Blankets in SE corner - Fourteen (14) Sliding Lead Doors along
_	D			south wall - 32' x 3' x 5" deep trough full of Lead Shot above Lead Doors along
5	Rupture Monitor Rm., El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	south wall
7	Equip. Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Matariala/No Jacoba
	Equip. Nill., El. (-)15-0	03/05/12		No Materials/No Issues
8	Elec. Equip. Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Materials/No Issues
0	Liec. Equip. Tim., El. (-)15-0	03/03/12	RSR-100ISS-10-0326	NO Materials/NO issues
9	Battery Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326	No Materials/No Issues
11	Fast Cart Tunnel, El.(-)19'-0"	05/03/12	N/A	No Materials/No Issues
	Tast Sait Talliloi, E.N. 715 U	00/14/12	1	Fourty five (45) Lead Blankets left hanging over Reactor front face - Three Lead
				Blankets left on west end of floor grading - Pit de-watered and filled with grout to
23	"C" Elevator Pit, El. (-)16'-0'	11/14/11	RSR-100ISS-11-0556	top of pit wall (0' 0" El.)
29	"W" Elevator Rm. (Front Face), El. 0'-0"	11/09/11	RSR-100ISS-11-0457	No Materials/No Issues
	\		RSR-100ISS-10-0986	
35	Pipe Tunnel (South End), El. (-)21'-0"	10/28/10	RSR-100ISS-10-1032	No Materials/No Issues
				Fourteen (14) Lead sliding doors along south wall - 32' x 3' x 5" deep trough full
37	Rupture Monitor Rm., El. (-)10'-0"	10/28/10	RSR-100ISS-10-0970	of Lead Shot above lead doors along south wall
			RSR-100ISS-10-0986	
41	El. (-)21'-0" Included with Room 35	10/28/10	RSR-100ISS-10-1032	No Materials/No Issues
			RSR-100ISS-06-0065	
			RSR-100ISS-06-0069	
			RSR-100ISS-06-0070	
			RSR-100ISS-06-0071	
			RSR-100ISS-06-0084	
			RSR-100ISS-06-0109	Florescent lights and ballasts all levels - residual oil and absorbant in HCR
*170	Outer Rod Rm. East Side, El. 0'-0" to 28'-0"	02/22/11	RSR-100ISS-08-0615	reservior and rod racks - Approx. 200 LF of Asbestos covered 12" pipe
				Florescent lights and ballasts all levels - tubing with spray-on mastic 1st level
				south side - Approx. 100LF Asbestos covered 2' x 2' HVAC duct 1st and 2nd
*171	Inner Rod Rm. East Side, El. 0'-0" to 28'-0"	02/22/11	RSR-100ISS-06-0086	level
		1	L	· · · · · · · · · · · · · · · · · · ·



Subcontract No.: C00N508A00 Subcontractor: WDC

105N/109N SSE Final Room Turnover Summary List



Washington Closure Hanford Job No.: 14655

105N Buildii	ng sa			
Room No.	Description	Date Signed	Rad Survey	Hazardous Material Left in-Place/Comments
172	El. 5'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
173	Ready Rm., El. 5'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
174	Blue Tool Rm., El. 5'-0'	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
			RSR-100ISS-12-0062	
175	Observation Rm., El. 0'-0"	06/12/12	RSR-100ISS-12-0070	No Materials/No Issues
*176	Outer Rod Rm. West Side, El. 0'-0" to 28'-0"	02/22/11	RSR-NRx-98-0258 RSR-100ISS-06-0073	Florescent lights and ballasts all levels - residual oil and absorbant in HCR reservior and rod racks - Approx. 200 LF of Asbestos covered 12" pipe
*177	Inner Rod Rm. West Side, El. 0'-0" to 28'-0"	02/22/11	RSR-NRx-98-0258 RSR-100ISS-06-0078	south side - Approx. 100LF Asbestos covered 2' x 2' HVAC duct 1st and 2nd level
301	Elec. Rm., El. 16'-6"	03/15/12	RSR-100N-12-0046	No Materials/No Issues
302	El. 16'-6"	03/15/12	RSR-100N-12-0046	No Materials/No Issues
401	Remote Equip. Rm., El. 28'-3"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
402	El. 28'-3"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
501	Elec. Rm., El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
502	El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
503	(Partial), El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
			RSR-100ISS-12-0062	
507	Outlet Valve Oper. Gallery, El. 43'-6"	06/12/12	RSR-100ISS-12-0070	No Materials/No Issues
520	(Partial), El. 51'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
601	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
602	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
603	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
606	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
607	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
609	El. 60'-6*	03/15/12	RSR-100N-11-2334	No Materials/No Issues
610	(Partial), El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
611	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
612	Air Lock, El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
613	Air Lock, El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
	El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	No Materials/No Issues
Corridor 4	(South End), El. (-)10'-0"	10/28/10	RSR-100ISS-10-0970	No Materials/No Issues
COMIGO. 1	(50011 2110); 211 (710 0	, , , , , , , , , , , , , , , , , , , ,	RSR-100ISS-12-0062	
Corridor 7	EL 5'-0"	06/12/12	RSR-100ISS-12-0070	No Materials/No Issues
	(South End), El. 0'-0"	08/02/12	RSR-100ISS-10-1253	No Materials/No Issues
JOING, LL	, , , , , , , , , , , , , , , , , , ,		RSR-100ISS-10-0326	
R Elevator	Elevator Equip Rm., El. (-)24'-0"	03/05/12	RSR-100N-11-2333	No Materials/No Issues
Roof	105N SSE Main Roof, EL. 70'-0"	11/14/11	RSR-100ISS-11-0542	No Materials/No Issues
Roof	105N W. Rod Rm. SSE Roof, EL. 40'-0"	11/09/11	RSR-100ISS-11-0436	No Materials/No Issues
	El. (-)24'-0" to 40'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
	El. 40'-0" to 105N Roof	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
Stair 8	El. 5'-0" to 43'-6"	06/12/12	RSR-100ISS-12-0062 RSR-100ISS-12-0070	No Materials/No Issues
Otali o	Note:			110 1110 1100 110 100 110
	* Rooms Not Included In This Project. Material I	Descriptions And Su	ryeve Provided For Inform	pation
	1. Hooms Not included in This Project. Material t	rescriptions And Su	iveys i tovided i or linoin	IGHOTI.
	<u> </u>			L

3.2 105-N & 109-N SSE FINAL ROOM TURNOVER CHECKLISTS

Room # / Description Rm.103/Water Quality Lab Elevation 0'0" BLDG 109N

This room prior to sealing or final turnover has been checked for the following:

X X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
		COMMENTS	
Room in	spected 05/0	04/2011	
		Left in Place:	
1) Two (2	2) Lead blan	kets in NE corner of room	
2.55			
KAD DO		RSR-100 ISS-11-0164	Ø3 22 12
		RSR-100 ISS-10-0697	
			
These iter	ms have bee	en verified by the following:	
D (WCH/CSE	print & sign	$\frac{5/17/11}{\text{date}}$	
Jorz (WCH/Engi	DIELANIZY	At & sign 5/17/11 date	-

Room # / Description Rm.104/Change Room Elevation 0'0" BLDG 109N

This room prior to sealing or final turnover has been checked for the following:

X X X X X X	<u>N/A</u>	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
		COMMENTS	
Room in	nspected 05/0	4/2011 No issues	
RAD S	ルアノをしる!	RSR-100 ISS-11-0164	90 3 22 12
	215 1 2 1 2 1	RSR-100 ISS-10-0697	
	- ***		
These ite	ems have bee	n verified by the following:	
WCH/CSE		$\frac{5/17/11}{\text{date}}$	
Jor D WCH/Eng	ineering prin	Or Belance 5/17/11 t & sign date	

Room # / Description Rm.105/Grab Sample Rm. Elevation 0'0" BLDG 109N

This room prior to sealing or final turnover has been checked for the following:

X X X X X X M/A	Room systems in stable conditions Trash, debris, and combustibles rem Biological hazard removed and disin RAD Survey completed (either exis Final photo's or video by WCH Final inventory of hazardous materi Accessible Shield Doors- polyurethe locks removed and permanent weld:	nfected string or updated survey) ials left in place by WCH ane foam removed, RAD	
	COMMENTS		
Room inspected 05/0	4/2011 No issues		7
RAD SURVEYS:	RSR-100 ISS -11-0164 RSR-100 ISS -10-0697		90 3/22/12
These items have been	n verified by the following:		_
WCH/CSE print & sign JOB DELANZ WCH/Engineering print	$\sim \sim 0$	$\frac{5/17/11}{\text{date}}$ $\frac{5/17/11}{\text{date}}$	

Room # / Description Rm.106/RAD Chem. Lab Elevation 0'0" BLDG 109N

This room prior to sealing or final turnover has been checked for the following:

<u>X</u> <u>X</u> <u>X</u> <u>X</u> 		Trash, debris, and combustibles ren Biological hazard removed and disi RAD Survey completed (either exist Final photo's or video by WCH Final inventory of hazardous mater Accessible Shield Doors- polyureth locks removed and permanent weld	infected sting or updated survey) rials left in place by WCH nane foam removed, RAD	
		COMMENTS		
Room i	nspected 05/0)4/2011 No issues		
RADS	SURVEYS!	RSR-100 ISS -11-0164 RSR-100 ISS-10-0697		403 ZZ 1Z
These it	ems have bee	n verified by the following:		
	E print & sign	Delany tæsign	5/17/11 date 5/17/11 date	

Washington Closure Hanford 105N/109N SSE

Contract # C00N508A00 Final Room Turnover Checklist

12-8/6"

Room # / Description Rm.208/Non-Rad Chem. Lab Elevation 15:0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

X X X X X	 <u>N/A</u> <u>N/A</u>	Trash, debris Biological ha RAD Survey Final photo's Final invento Accessible Sl	or video by W ory of hazardous hield Doors- po	oles removed and disinfected her existing or u CH s materials left in olyurethane foam	n place by WCH removed, RAD	
		locks remove	ed and permane	nt welding of do	or complete	
			COMMEN	TS		
Room in	spected 09/0	1/2010 No Issu	es			\neg
RAD SC	DRVIZY! F	35R-100IS	5-10-07=	25		403122112
						
These iter	ms have been	verified by the	e following:	· · · · · · · · · · · · · · · · · · ·		
Don Ke WCH/CSE	print & sign	<u>. uc</u>			09 - 07 - 10 date	
Jorz Drz WCH/Engir	neering print	& sign	mam 9/7/10		09/7/10 date	

Washington Closure Hanford 105N/109N SSE

Contract # C00N508A00 Final Room Turnover Checklist

Room # / Description Rm.307/Non-Rad Sample Rm. Elevation 25'0" BLDG 105N

Complet	ed / NA					
<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>	N/A N/A	Trash, debris, Biological has RAD Survey Final photo's Final inventor Accessible Sh	is in stable condition and combustibles are removed and completed (either or video by WCH by of hazardous mateld Doors- polyud and permanent was sield permanent was s	removed disinfected existing or upda aterials left in pl rethane foam rei	ace by WCH moved, RAD	
			COMMENTS			
Room in	spected 09/0	1/2010 No Issue	es			
RADS	URVIZY:	RSR-100I	SS-10-072	5		9031221rZ
These iter	ms have beer	verified by the	following:			
Don K WCH/CSE		LUCO .		_	09-07-10 date	
Joiz Or WCH/Engir		Joe Johanna & sign	mam 9/2/10	_	9 7 10 date	

Room # / Description 109N Access Building Elevation (-) 16'-0" BLDG 109N

Completed	/ NA				
$\begin{array}{c c} X \\ \hline \end{array}$	 	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or Final photo's or video by WCH Final inventory of hazardous materials left Accessible Shield Doors- polyurethane for Locks removed and permanent welding of	updated survey) in place by WCH am removed, RAD		
		COMMENTS			
Area inspec	ction and F	Final photos taken 2-15-2012			
No Issues					
Rad Survey	RSR-100	ISS-11-2333			
These items	s have been	n verified by the following:			
Bob W/3 College 3/5-/2 WCH/CSE print & sign date Joseph Dize ANTRY Or Selanen 3/15/12					
WCH/Engine	ering prin	t & sign	date		

Room # / Description 109 Bldg Under SSE Roof. Elevation 40' 0" BLDG 109N

This room prior to sealing or final turnover has been checked for the following:					
Completed /	NA				
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH N/A Final inventory of hazardous materials left in place by WCH N/A Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete					
<u> </u>	1 . 1	COMMENTS			
Inspection co	mpleted	on 07/07/11. Following structural comple	tion no issues.		
New lighting	system i	installation completed 11-22-2011			
Final Inspect	ion and I	Final Photos taken on 2-7-2012	·		
No Issues					
RAD Survey	RSR-10	0ISS-11-0452			
These items have been verified by the following:					
Bb LRas Sbl B-15-12 WCH/CSE print & sign date					
DE DELANEY DE Delaney WCH/Engineering print & sign 3/15/12 date					

Room # / Description Pressurizer Roof. Elevation 84' 0" BLDG 109N

This room prior to sea	aling or final turnover has been checked for the following:	
Completed / NA		
X X X X X X N/A	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
	COMMENTS	
Inspection completed	d on 04/06/11. No issues	
RANS	PSP 100 TSS -11 minut	40 3122/12
THU SURVEY; I	RSR-100 ISS-11-0104	46 3/2/16
These items have been	n verified by the following:	
WCH/CSE print & sign	4/14/11 date	
WCH/Engineering print	t & sign Hi4/11 date	

Room # / Description Stair 7 Elevation 0'0" to 25'0" BLDG 105N

Complete	ed / NA			
<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>	 <u>N/A</u> <u>N/A</u>	Room systems in stable conditions Trash, debris, and combustibles remanded and dising RAD Survey completed (either exist Final photo's or video by WCH Final inventory of hazardous material Accessible Shield Doors- polyurethal locks removed and permanent welding	ifected ing or updated survey) als left in place by WCH in foam removed, RAD	
		COMMENTS		
Room in:	spected 09/0	1/2010 No Issues		
RAD SU	RVRY: 1	RSR-100 ISS -10-0725		90 3/22/12
These item	ns have beer	n verified by the following:		
Donky WCH/CSE	print & sign	LOO.	09-07-10 date	
Joz Orz WCH/Engin	ZLANBY (neering print	& sign 9/7/10	<u>9/7/10</u>	

Room # / Description Rm.4/Ball Control Rm.Elevation (-)16'0" BLDG 105N

Completed	/ NA				
X X X X X					
		COMMENTS			
Room inspe	cted 04/1	14/2010 No Issues			
RAD SURV	zy: RS	5R-100 ISS-10 - 0327	JA3 22 12		
These items	have bee	en verified by the following:			
D. LKE WCH/CSE	print & sign	4/21/10 date			
JOE DIEW WCH/Enginee MAMU		1/21/10 nt & sign date 1/21/10			

Room # / Description Rm.5/Rupture Monitor Rm.Elevation (-)16'0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

X X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete			
		COMMENTS	;		
Room in	spected 04/14	4/2010			
	us Materials				
		cets in SE corner of room.			
	2) Sliding lead doors along south wall. (14 EACH) 40 312012 3) 32'X3'X5" deep trough full of lead shot above lead doors along south wall.				
			good drong south water		
RADS	RAD SURVEY: RSR-100 ISS-10-0327				
These ite	ems have been	n verified by the following:			
WCH/CSI		الم	4/21/10 date		
WCH/Eng	LANGE DEL		4/21/10 date 4/21/10		
MIT	1 HALICAV	na muhal	4/21/10		

Room # / Description Rm.7/Equip.Rm.Elevation (-)15'0" BLDG_105N

Completed / NA

This room prior to sealing or final turnover has been checked for the following:

Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected

Final photo's or video by WCH

RAD Survey completed (either existing or updated survey)

	Final inventory of hazardous materials left in place by WCH N/A Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete				
JPD3İSİ12	INSPRETION COMPL	COMM 8/2010 Note: Pourback a ETTED TINAL PHOTO'S T R-100 ISS-10-0326;	t east wall in progress f	Iswes.	
	These items have been Do L Collow WCH/CSE print & sign WCH/Engineering print MA MUHALIC	h verified by the following	g:		Th 3-5-12 PD 3/5/12

Room # / Description Rm.8/Elect.Equip.Rm.Elevation (-)15'0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

८ अध्याट
03 22/12
3-5-12 15112
.511Z
•

Room # / Description Rm.9/Battery Rm.Elevation (-)15'0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

<u>X</u> <u>X</u> <u>X</u> <u>X</u>	X Room systems in stable conditions X Trash, debris, and combustibles removed Biological hazard removed and disinfected X RAD Survey completed (either existing or updated survey) Final photo's or video by WCH N/A Final inventory of hazardous materials left in place by WCH N/A Accessible Shield Doors- polyurethane foam removed, RAD				
		locks removed and perman	nent welding of door complete		
		COMME	NTS		
	mpleted 04/1				
		be removed – mice dropping		_	
Note: Po	urback at eas	t wall in progress final video	to be taken at later date.	\dashv	
INSPIZA	INSPIRCTION COMPLIZIES - FINAL PHOTO'S TAKEN 2/15/12. NO ISSUES.				
RAS Survey: RSR-100 ISS-10-0326; RSR-100N-11-2333					
				_	
				-	
These ite	ems have beer	n verified by the following:		_	
Don L WCH/CSE	E print & sign	Luc CO	4/21/10 D	l 3-5	
WCH/Engi	ineering print	& sign	date	3912	
MAI	ハハナサイハノ	ma muhol	4/21/10		

Washington Closure Hanford 105N/109N SSE

Subcontract No.: J027807A00

Final Room Turnover Documentation

Date: 05/10/12

Area: 100N

Building: 105N

Room No./Description: Rm.#11 Fast Cart Tunnel (Discharge Tunnel)

Elevation: (-)19'-0"

Location: West Side of 105N

Observation Performed and Results:

On 05/10/12, following 105N Fuel Storage Basin (FSB) structure removal, a visual observation was performed of the Fast Cart Tunnel. The observation was made through an opening in the west end of the tunnel with the use of a digital video cassette recorder and camera with built-in lights (Equipment- Sony Digital Video Cassette Recorder Model #GV-D1000/D1000E and Camera). Video provided a view of the floor of the tunnel which is covered with approximately 3'-0" of grout (El. (-)16') from FSB pre-demolition preparation, the tunnel walls, and the top of tunnel grating at the west end of tunnel (Area of View- west wall to approximately 10' east from west end of tunnel). There was some concrete/grout debris observed inside the tunnel opening. The fast cart tunnel door at the west end of tunnel was observed to be open.

The floor of the Fast Cart Tunnel was verified to be in a dry condition.

These observations were performed by the following:
Bob Lewis 5-14-12 WCH/CSE Sign & Date
Daryl Schilperoort Sign & Date 5-14-2012 WCH/STR Sign & Date
Joe Delaney John Comer John Comer Sign & Date WCH/Engineer Sign & Date
Thomas Yamamoto Sign & Date

Room # / Description 105N C Elevator Pit (Rm 23) Elevation -16' 0" BLDG 105N 40 2122112

Complete	d / NA			
$\begin{array}{c} X \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \overline{X} \\ \end{array}$		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete		
		COMMENTS		
		ed on 10/23/11.		
Hazardous material left in place near C elevator pit				
1) 45 Lead blankets left hanging over reactor front face 2) 3 Lead blankets left on west end walk grating				
		pit de-watered and filled with grout to top		
	or pit walls	s (approximately El. 0'-0")		
RADS	JRVIZY : Í	RSR-100 ISS-11-0556	<u>वि</u> वि अय्योः	
These iter	ns have bee	en verified by the following:		
Don L WCH/CSE	print & sig	Doll QQ 11/14/11 date		
O∈ WCH/Engir	DELAN	nt & sign II/14/11 date		

Room # / Description 105N W Elevator Area (Front Face) Elevation 0' 0" BLDG 105N (Rm 29)

This room prior	to sealing or final turnover has been checked for the following:	
Completed / N	JA	
X X X X X X	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
	COMMENTS	
Inspection com	pleted on 08/25/11. No issues	
		-
RAIDSURVEY	1. RSR-100 ISS-11-0457	4) 3/22/12
These items have	e been verified by the following:	
Dallala WCH/CSE print	& sign $\frac{11/9/11}{\text{date}}$	
VCH/Engineering	print & sign date	

Room # / Description Rm.35/Pipe Tunnel South End) Elevation (-)21'0" BLDG And Rm.4)	105N D31211Z
This room prior to sealing or final turnover has been checked for the following:	43 2001.C
Completed / NA	
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH N/A Final inventory of hazardous materials left in place by WCH N/A Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
COMMENTS	
Room inspected 10/26/2010 No Issues	
RAD SURVEY: RSR-100 ISS-10-0986	903122112
RSR-100ISS-10-1032	
These items have been verified by the following:	
WCH/CSE print & sign date	
WCH/Engineering print & sign 10/28/10 date	

Room # / Description Rm.37/RuptureMonitorRm Elevation (-)10'0" BLDG 105N

Complete	ed / NA			
X X X X X		Room systems in stable conditions Trash, debris, and combustibles remo Biological hazard removed and disinf RAD Survey completed (either existing Final photo's or video by WCH Final inventory of hazardous material Accessible Shield Doors- polyurethan locks removed and permanent welding	fected ng or updated survey) Is left in place by WCH ne foam removed, RAD	
		COMMENTS		
14 Lead s	sliding door	25/2010 No Issues s along south wall to remain	ong south well].
32'X3'X5" deep trough full of lead shot above lead doors along south wall. RAD Suzvey: RSR-100 ISS - 10 - 0970				403122112
				_
These iten	ns have been	n verified by the following:		
Don Kell WCH/CSE	print & sign	Duk 00	10/28/10 date	
JOIZ DE C WCH/Engin	eering print	Jor Idanen mam & sign 10/2 2/10	10/28/10 date	

Room # / Description Rm.170/Left Outer Rod Rm.Elevation 0'0"-28'0" BLDG 105N East Side

Completed	/ NA				
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH N/A Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete					
		COMMENTS			
See Page 2	for Addi	tional Comments			
DANS		Z IOTTS - C - C - C			
IVAD OURSE		0R-100ISS-06-0065	40372211Z		
		R - 100 ISS - 06 - 0069 SR - 100 ISS - 06 - 0070			
		SR-100 ISS-06-0071			
		SR-100 ISS-06-0084			
		SR-100 ISS-06-0109			
	R	SR-100ISS-08-0615			
These items	have bee	en verified by the following:			
Dock			2-22-11		
WCH/CSE I	orint & sign	1	date		
JOR DELANAY	Jor Jolan	in am 2	[22]11		
WCH/Enginee	ring prin	nt & sign 2/22/11	date		

Rm.No./Description #170 Left (East) Outer Rod Room

Elev. <u>0'-0"</u>
Bldg. <u>105N</u>

COMMENTS (Continued):

- 1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
- 2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
- 3. Material remaining in room:
 - A. Florescent lights [Loction- All levels].
 - B. Florescent light balasts [Location- All levels].
 - C. Horizontal Control Rod(HCR) hydraulic oil reservoir- Residual hydraulic oil with oil dry [Location- 1st level].
 - D. HCR system- Residual hydraulic oil in HCR tracks with oil dry [Loction-2nd to 4th levels].
 - E. Asbestos insulation on pipe <12" diameter- approximately 200 LF [Location- 1st to 4th levels].

Room # / Description Rm.171/Left Inner Rod Rm.Elevation 0'0"-28'0" BLDG 105N East Side

Completed	/ NA				
X X X X X X		Room systems in stable cond Trash, debris, and combustib Biological hazard removed a RAD Survey completed (eith Final photo's or video by W Final inventory of hazardous Accessible Shield Doors- polocks removed and permane	oles removed and disinfected her existing or upda CH is materials left in ployurethane foam re	lace by WCH moved, RAD	
		COMMEN	TS		
See Page 2	for Addit	tional Comments			
RAD SURVEY: RSR-100 ISS -06-0086				903122112	
These items	have been	n verified by the following:			
Dark	(1)	Ω α		2-22-11	
WCH/CSE 1	print & sign	Jacobs		date	
JOZDZIANE WCH/Enginee	ring print	any Mam 1& Sign 2/22/11		2 22 11 date	
		- / / /			

Rm.No./Description #171 Left (East) Inner Rod Room

Elev. <u>0'-0"</u> Bldg. <u>105N</u>

COMMENTS (Continued):

- 1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
- 2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
- 3. Material remaining in room:
 - A. Florescent lights [Loction- All levels].
 - B. Florescent light balasts [Location- All levels].
 - C. Small tubing with asbestos spray-on flame mastic insulation [Location- 1st Level, South side].
 - D. Asbestos insulation on HVAC duct (2' x 2')- approximately 100 LF [Location- 1st and 2nd Level, south/southeast side].

Room # / Description Rm. 172 Elevation 5'-0" **BLDG** 105N This room prior to sealing or final turnover has been checked for the following: Completed / NA Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH NA Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete **COMMENTS** Final Inspection and Final photos taken on 2-15-2012 No Issues Rad Survey RSR-100N-11-2333 These items have been verified by the following:

Room # / Description Rm.173 Ready Rm. Elevation 5'-0" BLDG 105N

Completed /	' NA		
<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updat Final photo's or video by WCH Final inventory of hazardous materials left in pla Accessible Shield Doors- polyurethane foam rem locks removed and permanent welding of door contents.	ace by WCH noved, RAD
		COMMENTS	
Final Inspect	ion and l	Final Photos taken on 2-15-2012	
No Issues			
Rad Survey l	RSR-100	N-11-2333	
These items	have bee	n verified by the following:	
, 0 - 0	<u>いけ</u> rint & sigr	Call	3-/5-/2 date
JOE DE WCH/Engineer	ELANE ing prin	y Out Solaners	3/15/12 date

Room # / Description Rm.174 Blue Tool Rm. Elevation 5'-0" BLDG 105N

Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or Final photo's or video by WCH Final inventory of hazardous materials left Accessible Shield Doors- polyurethane for locks removed and permanent welding of	updated survey) in place by WCH am removed, RAD
COMMENTS	
Final Photos taken on 2-15-2012	
ON-11-2333	
n verified by the following:	
Robert Selaners	3-/5-/2 date 3/15/12 date
	Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or Final photo's or video by WCH Final inventory of hazardous materials left Accessible Shield Doors- polyurethane for locks removed and permanent welding of COMMENTS COMMENTS Comments

Room # / Discription Room 175 Elevation 0'-0" BLDG 105N

Room # / Description Rm.176/RightOuter Rod Rm.Elevation 0'0"-28'0" BLDG 105N West Side

Completed	/ NA		
X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCI Accessible Shield Doors- polyurethane foam removed, RAI locks removed and permanent welding of door complete	
		COMMENTS	
See Page 2	2 for Addi	tional Comments	
RAD SUR	V1842 (RSR- NRx-98-0258 RSR- 100 ISS-06-0073	00 31 zzh z
These items	s have bee	en verified by the following:	
WCH/CSE	راك print & sign	7-22. date	-11
WCH/Engine	ering prin	danus Mam 2/21/1 at & Sign 2/22/11 date	+ 2/22/11 Panu

Rm.No./Description #176 Right (West) Outer Rod Room

Elev. <u>0'-0"</u> Bldg. 105N

COMMENTS (Continued):

- 1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
- 2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
- 3. Material remaining in room:
 - A. Florescent lights [Loction- All levels].
 - B. Florescent light balasts [Location- All levels].
 - C. Horizontal Control Rod(HCR) hydraulic oil reservoir- Residual hydraulic oil with oil dry [Location- 1st level].
 - D. HCR system- Residual hydraulic oil in HCR tracks with oil dry [Loction-2nd to 4th levels].
 - E. Asbestos insulation on pipe <12" diameter- approximately 200 LF [Location- 1st to 4th levels].

Room # / Description Rm.177/Right Inner Rod Rm.Elevation 0'0"-28'0" BLDG 105N West Side

Completed / NA	
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated) Final photo's or video by WCH Final inventory of hazardous materials left in plants of the process of the polyment of th	ace by WCH moved, RAD
COMMENTS	
See Page 2 for Additional Comments	
RAD SURVEYS! RSR-NRx-98-0258	Q) 3/22/12
RSR-100ISS-06-0078	
These items have been verified by the following:	
WCH/CSE print & sign JOH STANKY Or Johnson M Cam WCH/Engineering print & sign 2/22/11	Z-ZZ-11 date 2/22/11 date

Rm.No./Description #177 Right (West) Inner Rod Room

Elev. <u>0'-0"</u> Bldg. <u>105N</u>

COMMENTS (Continued):

- 1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
- 2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
- 3. Material remaining in room:
 - A. Florescent lights [Loction- All levels].
 - B. Florescent light balasts [Location- All levels].
 - C. Small tubing with asbestos spray-on flame mastic insulation [Location- 1st Level, South side].
 - D. Asbestos insulation on HVAC duct (2' x 2')- approximately 100 LF [Location-1st and 2nd Level, south/southwest side].

Room # / Description Rm.301 Electric Rm. Elevation 16'-6" BLDG 105N

Completed /	NA		
<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or upor Final photo's or video by WCH Final inventory of hazardous materials left in parameters and permanent welding of door	place by WCH emoved, RAD
		COMMENTS	
Final Inspecti	on and F	Final Photos taken on 2-15-2012	
No Issues			
RAD Survey	RSR-10	0N-12-0046	
These items h	ave beer	n verified by the following:	
	Pいい (int & sign	Sh	3-15-12 date
John Drak WCH/Engineeri		de Jolanes i & sign	3 15 12 date

Room # / Descr	ription _	Rm.302	Elevation 16	6'-6" BLDG	<u>105N</u>
This room prior	to sealin	g or final turn	over has been ch	necked for the f	following:
Completed / N	ΙA				
X X X X X NA	T B R F A	Frash, debris, a Biological haza RAD Survey co Final photo's o Final inventory accessible Shio	in stable condition combustibles and removed and completed (either rideo by WCH) of hazardous meld Doors-polyuand permanent was stable.	s removed I disinfected Existing or upo I Laterials left in parethane foam r	place by WCH removed, RAD
			COMMENTS	5	
Final Inspection	and Fina	al Photos taker	n on 2-15-2012		
No Issues					
RAD Survey RS	SR 100N-	-12-0046			
These items have Cob Lee WCH/CSE print Joie Die	ر در در & sign	Soll.	following:		$\frac{3-15-12}{\text{date}}$
WCH/Engineering		7	T		date

Room # / Description Rm.401 Remote Equip. Rm. Elevation 28'-3" BLDG_105N

Completed	/ NA		
$\begin{array}{c c} \underline{X} \\ $		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or u Final photo's or video by WCH Final inventory of hazardous materials left i Accessible Shield Doors- polyurethane foan locks removed and permanent welding of de	n place by WCH n removed, RAD
		COMMENTS	
Final Lancas	4: 1	Einel Dhatas tales as 2 15 2012	
Final inspec	tion and	Final Photos taken on 2-15-2012	
No Issues			
DAD Comme	DCD 16	00N 11 2224	-
KAD Surve	y KSK-10	00N-11-2334	
These items	have bee	en verified by the following:	
WCH/CSE JOE WCH/Enginee		n net & sign	$\frac{3-15-12}{\text{date}}$ $\frac{3/15/12}{\text{date}}$

Room # / Description	n Rm.402 Elevation	on 28'-3" BLDG 105N	
This room prior to sea	ling or final turnover has been	en checked for the following:	
Completed / NA			
X X X X X X NA NA	Final photo's or video by W Final inventory of hazardou Accessible Shield Doors- po	ribles removed l and disinfected ither existing or updated survey)	
	COMMEN	NTS	
Final Inspection and F	inal Photos taken on 2-15-20	012	
No Issues			
RAD Survey RSR-100	N-11-2334		
These items have been	verified by the following:		
WCH/CSE print & sign	36th	3-15-12 date	
JOE DIZLAND	& sign	3/15/12 date	

Room #/Description Rm.501 Electric Rm. Elevation 40'-0" BLDG 105N

Completed	/ NA		
<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated so Final photo's or video by WCH Final inventory of hazardous materials left in place to Accessible Shield Doors- polyurethane foam removed locks removed and permanent welding of door completed.	by WCH ed, RAD
		COMMENTS	
Final Inspec	tion and	Einal Photos talian on 2.7 2012	
Final hispec	tion and	Final Photos taken on 2-7-2012	
No Issues			
DAD Common	- DCD 10	00N 11 2224	
KAD Surve	y KSK-IC	00N-11-2334	
These items	have bee	en verified by the following:	
WCH/CSE WCH/Enginee			-/5-/2 date 15/12 date

Room # / Description Rm.502 Elevation 40'-0" BLDG 105N

i nis room pri	or to sea	aining of final turnover has been checked for	the following:
Completed /	NA		
$\begin{array}{c} \underline{X} \\ $	 <u>NA</u>	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfecte RAD Survey completed (either existing of Final photo's or video by WCH Final inventory of hazardous materials le Accessible Shield Doors- polyurethane follocks removed and permanent welding of	ed or updated survey) Ift in place by WCH oam removed, RAD
		COMMENTS	
Final Inspecti	on and I	Final Photos taken on 2-7-2012	
No Issues			
RAD Survey	RSR-10	0N-11-2334	
These items h	ave bee	n verified by the following:	3-15-12
WCH/CSE pr	int & sigr		date
WCH/Engineeri	LANE ng prin	y De Delaning t & sign	3/15/12 date

Room # / Description Rm.503 (Partial) Elevation 40'-0" BLDG 105N

NA		
	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or Final photo's or video by WCH Final inventory of hazardous materials left Accessible Shield Doors- polyurethane for locks removed and permanent welding of	updated survey) in place by WCH am removed, RAD
	COMMENTS	
on and	Final Photos taken on 2-7-2012	
RSR-10	0N-11-2334	
ave bee	n verified by the following:	
LANIZ	y De Delanus	3-/5-/2 date 3/15/12 date
	on and large bee	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or Final photo's or video by WCH NA Final inventory of hazardous materials left NA Accessible Shield Doors- polyurethane for locks removed and permanent welding of COMMENTS On and Final Photos taken on 2-7-2012 RSR-100N-11-2334 ave been verified by the following: AND Survey completed (either existing or Final photo's or video by WCH COMMENTS COMMENTS AND Survey completed (either existing or Final photo's or video by WCH COMMENTS COMMENTS AND Survey completed (either existing or Final photo's or video by WCH Final inventory of hazardous materials left COMMENTS COMMENTS COMMENTS AND Survey Completed (either existing or Final photo's or video by WCH Final photo's or video by WCH Final photo's or video by WCH Final photo's or video by WCH COMMENTS

Room #/Discription Room 507 Elevation 43'-6" BLDG 105N

Completed / NA				
X X X X X ————————————————————————————	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or u Final photo's or video by WCH Final inventory of hazardous materials left i Accessible Shield Doors- polyurethane foan locks removed and permanent welding of de	n place by WCH n removed, RAD		
	COMMENTS			
Final Inspection and Fi	nal Photos Completed 06-05-2012			
Timal hispection and Ti	nai i notos completed 00-03-2012			
No Issues				
D. D. G	700 10 00 (0 1 D CD 100 Y CD 10 00 TO			
RAD Survey RSR-100	ISS-12-0062 and RSR-100ISS-12-0070			
		 		
These items have been verified by the following:				
WCH/CSE print & sign JOVE DRIANGY WCH/Engineering print of	& sign	$\frac{6-12-12}{\text{date}}$ $\frac{6 12 2012}{\text{date}}$		

Room # / Description Rm.520 (Partial) Elevation 51'-0" BLDG_105N

Completed	/ NA				
X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or u Final photo's or video by WCH Final inventory of hazardous materials left ir Accessible Shield Doors- polyurethane foam locks removed and permanent welding of do	n place by WCH a removed, RAD		
		COMMENTS			
Final Inspec	tion and	Final Photos taken on 2-7-2012			
No Issues					
RAD Survey	y RSR-10	00N-11-2334			
These items have been verified by the following:					
Bob Lew 15 Folks WCH/CSE print & sign 3-15-2 date					
JOFZ DIZLANZY OK Dalanes WCH/Engineering print & sign 315/12 date					

Room # / Description	Rm.601 Elevation 60'-6" BLDG 105N			
This room prior to seal	ing or final turnover has been checked for the following:			
Completed / NA				
X X X X X X NA	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete			
	COMMENTS			
Final Inspection and F	nal Photos taken on 2-7-2012			
No Issues				
RAD Survey RSR-100	N-11-2334			
These items have been verified by the following: 3-/5-/2 WCH/CSE_print & sign.				
WCH/CSE print & sign date JOE DELANEY OF Delaner WCH/Engineering print & sign date				

Room # / Description Rm.602 Elevation 60'-6" BLDG_105N This room prior to sealing or final turnover has been checked for the following: Completed / NA Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH NA Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete **COMMENTS** Final Inspection and Final Photos taken on 2-7-2012 No Issues RAD Survey RSR 100N-11-2334 These items have been verified by the following: WCH/CSE print & sign

Room # / Description Rm.603 Elevation 60'-6" BLDG_105N

This room prior	to sealing or final turnover has been checked for the following:				
Completed / N	A				
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH NA Final inventory of hazardous materials left in place by WCH NA Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete					
	COMMENTS				
Final Inspection	and Final Photos taken 2-7-2012				
No Issues					
RAD Survey RS	R-100N-11-2334				
These items have been verified by the following: Sold Last Sold S					

Room # / Desc	cription _	Rm.606	Elevation	60'-6"	BLDG _105N
This room prior	r to sealin	g or final turi	nover has bee	en check	ed for the following:
Completed /	NA				
		Final photo's of inal inventor Accessible Sh	and combust ard removed completed (e or video by V y of hazardo ield Doors- p	tibles ren l and disi ither exis WCH us materi polyureth	
			COMME	NTS	
Final Inspection	n and Fin	al Photos take	en on 2-7-20	12	
No Issues					
RAD Survey R	SR-100N	-11-2334			
These items ha WCH/CSE prin	ve been v	erified by the	following:		$\frac{3-15-12}{\text{date}}$
WCH/Engineering	g print &	sign			date

Room # / Description Rm.607 Elevation 60'-6" BLDG 105N

Room #/Description Rm.609 Elevation 60'-6" BLDG_105N This room prior to sealing or final turnover has been checked for the following: Completed / NA Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete **COMMENTS** Final Inspection and Final Photos taken on 2-7-2012 No Issues RAD Survey RSR-100N-11-2334 These items have been verified by the following: WCH/CSE print & sign

Room # / Description Rm.610 (Partial) Elevation 60'-6" BLDG_105N This room prior to sealing or final turnover has been checked for the following: Completed / NA Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete **COMMENTS** Final Inspection and Final Photos taken on 2-7-2012 No Issues RAD Survey RSR-100N-11-2334 These items have been verified by the following: WCH/CSE print & sign

Room # / Description Rm.611 Elevation 60'-6" BLDG 105N

This room prior	to sealing or final turnover has been checked for the follow	ving:			
Completed / N	NA				
\frac{X}{X} \\ \frac{X}{X} \\	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated Final photo's or video by WCH Final inventory of hazardous materials left in place Accessible Shield Doors- polyurethane foam removed locks removed and permanent welding of door completed.	by WCH ved, RAD			
	COMMENTS				
Final Inspection	and Final Photos taken on 2-7-2012				
No Issues					
RAD Survey RS	SR-100N-11-2334				
These items hav	ve been verified by the following:				
Sob Laws 3-15-12 WCH/CSE print & sign date					
	9				

Room #/Description Rm.612 Air Lock Elevation 60'-6" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:					
Completed	/ NA				
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH NA Final inventory of hazardous materials left in place by WCH NA Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete					
	,	COMMENTS			
Final Inspec	tion and l	Final Photos taken on 2-7-2012			
No Issues					
RAD Survey	y RSR-10	00N-11-2334			
These items have been verified by the following:					
WCH/CSE print & sign 3-15-12 WCH/Engineering print & sign 3-15-12 date 3/15/12					

Room #/Description Rm.613 Air Lock Elevation 60'-6" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:					
Completed /	NA				
X X X X X	 NA NA	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete			
		COMMENTS			
Final Inspecti	on and F	inal Photos taken on 2-7-2012			
No Issues					
RAD Survey	RSR-100	N-11-2334			
These items have been verified by the following:					
WCH/CSE print & sign 3-15-D date					
WCH/Engineering print & sign 3/15/12 date					

Room # / Description Corridor 3.Elevation (-)16'0" BLDG 105N

Completed / NA

X X X X X		Final photo's or video by We Final inventory of hazardous	oles removed and disinfected her existing or updated survey) CH s materials left in place by WCH olyurethane foam removed, RAD	
		COMMEN	TS	
Room in	nspected 04/1	4/2010 No Issues		
RAD S	SURVIZY :	RSR-100 ISS -10-0	327	90 Stzzli Z
These it	ems have bee	n verified by the following:		
DLk			4/21/10 date	
WCH/En	ulment begineering prin	it & sign	4 21 10 date 4/21/10	

Room # / Description Corridor 4/(South End) Elevation (-)10'0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

Completed / NA

X X X X X	N/A N/A	Final photo's or video by Final inventory of hazard Accessible Shield Doors-	ustibles removed ed and disinfected (either existing or updated survey)	
		COMMI	ENTS	
Room in	spected 10/2	5/2010 No Issues		
RAD S	OURVBY:	RSR-100 LSS-10-	0970	903/22/12
These iter	ns have been	verified by the following:		
Don Ke WCH/CSE	ller print & sign	LUC D	10/28/10 date	
WCH/Engir	vie Je Du neering print	& vign 10/24/10	10/28/10 date 10/28/10 date	
		_		

Room # / Discription Corridor #7 Elevation 5'-0" BLDG 105N

Completed / NA				
Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH NA Final inventory of hazardous materials left in place by WCH NA Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete				
	COMMENTS			
Final Inspection and I	Final Photos Completed 06-05-2012			
	1141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
No Issues				
RAD Survey RSR-10	0ISS-12-0062 and RSR-100ISS-12-0070			
These items have been verified by the following:				
Boblews / Sall WCH/CSE print & sign date JOE DIELANEY Delaner WCH/Engineering print & sign date				

Washington Closure Hanford 105N/109N SSE

Contract # C00N508A00 Final Room Turnover Checklist

Room # / Description Corridor 22/(South End) Elevation 0'0" BLDG_105N

This room pri	or to sea	ling or final turnover has been checked for the following:		
Completed /	NA			
$\begin{array}{c} \underline{X} \\ $	 	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete		
		COMMENTS		
Inspection do	ne on 07	-17-2012		
No Issues RSR-100ISS-	12 0172			
K3K-100133-	12-01/3			
			 .	
			<u>-</u> -	
These items h	ave been	verified by the following:		
Donkell	اسا	DelKOD 8/2/12		
WCH/CSE print & sign date				
WCH/Engineering print & sign Day To Day and date				

Room # / Description Bottom Stair 6/R Elevator Elevation (-)24'0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

Room systems in stable conditions

Trash, debris, and combustibles removed

Completed / NA

	<u>X</u>				
		COMM	ENTS		
	Room inspected 04/13/2010 Note: Pourback at east wall in progress final video to be				
	taken at later date.				
adaici.	INSPRICTION COMPLIETTES & FINAL PHOTOS TAKIEN 2/15/12. No ISSUES. RAD SURVIEY: RSR-100 ISS-10-0326; RSR-100N-11-2333				
حابع واعاد					
	These items have been	en verified by the following	; :		
	WCH/CSE print & sig	n O		4/21/10 date	Ol 3-5-12
	JOSE OFELANTY LOC WCH/Engineering prin MA MIHALIS	Alanus nt & sign		4/21/10 date 4/21/10	9PD315112
	· • • • • •	•		. , .	

Room # / Description 105N Main Roof Under SSE Roof Elevation 70' 0" **BLDG** 105N

This room prior to se	aling or final turnover has been checked for the following:	
Completed / NA		
X	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete	
	COMMENTS	
Inspection complete	ed on 9/8/11. No issues	
Note – No permane	nt access to this level	
RAD SURVEY:	RSR-100 ISS-11-0542	4D3 ZZIIZ
These items have been	en verified by the following:	,
WCH/CSE print & sig		
JOS DELANBY	nt & Sign 111411 date	

Room # / Description 105N West Rod Roof Under SSE Roof. Elevation 40' 0" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

Completed / NA

X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfector RAD Survey completed (either existing of Final photo's or video by WCH Final inventory of hazardous materials le Accessible Shield Doors- polyurethane for locks removed and permanent welding of	ed or updated survey) Ift in place by WCH oam removed, RAD	
		COMMENTS		
Inspecti	ion completed	d on 08/01/11. No issues		7
RADS	URVBY! F	RSR-100ISS-11-0436		403/22/12
These items have been verified by the following:				
WCH/CSE JOE WCH/Engi	DELANG	24 Jor Delanen & sign	11/9/11 date 11/9/11 date	

Room # / Description Stair 6 Elevation (-)24'-0" to 40'-0" BLDG 105N

1				
Completed /	NA			
X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or upor Final photo's or video by WCH Final inventory of hazardous materials left in paccessible Shield Doors- polyurethane foam r locks removed and permanent welding of door	place by WCH emoved, RAD	
COMMENTS				
Final Inspecti	on and F	inal Photos taken on 2-15-2012		
No Issues				
RAD Survey	RSR-100	N-2333		
These items h	ave been	verified by the following:		
Rob C WCH/CSE pr	دسے int & sign	362 0-11	3-15-12 date	
WCH/Engineerin	WCH/Engineering print & sign 3/15/12			
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		

Room # / Description Stair 6A Elevation 40'-0" to 105N Roof BLDG 105N

Completed	/ NA			
X X X X X		Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete		
COMMENTS				
Final Inspec	tion and	Final Photos taken on 2-15-2012		
No Issues				
140 188068				
RAD Surve	y RSR-10	00N-11-2333		
These items have been verified by the following:				
NCH/CSE JOIZ D	Peu/S print & sign	3 Doc Dulanen	$\frac{3-15-12}{\text{date}}$	
WCH/Enginee	WCH/Engineering print & sign date			

Washington Closure Hanford 105N/109N SSE Contract # J027807A00 Final Room Turnover Checklist

Room # / Discription Stair #8 Elevation 5'-0" to 43'-6" BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

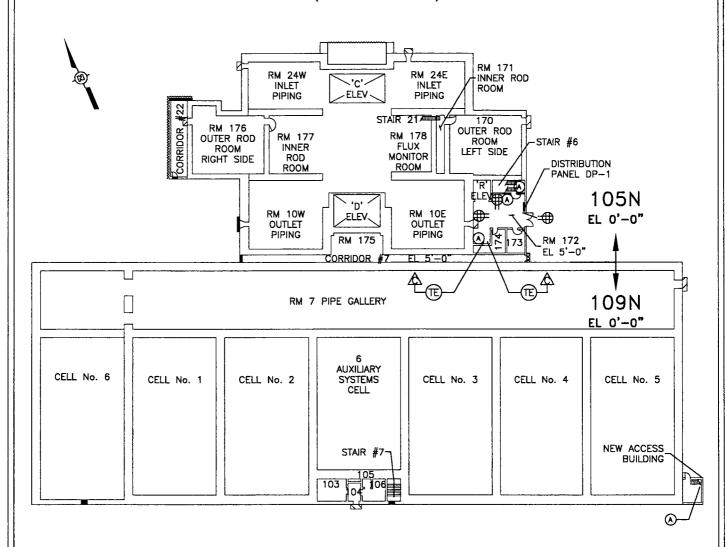
Completed / NA							
X X X X X ————————————————————————————	Room systems in stable conditions Trash, debris, and combustibles removed Biological hazard removed and disinfected RAD Survey completed (either existing or updated survey) Final photo's or video by WCH Final inventory of hazardous materials left in place by WCH Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete						
· · · · · · · · · · · · · · · · · · ·	COMMENTS						
Final Inspection and Fi	nal Photos Completed 06-05-2012						
No Issues							
RAD Survey RSR-100	ISS-12-0062 and RSR-100ISS-12-0070						
		· · · · · · · · · · · · · · · · · · ·					
These items have been verified by the following:							
C-12-12 C-12-12							

3.3 <u>105-N & 109-N BUILDING SKETCHES</u>

Note- Room 208 at El.12'-8 ½" and Room 307 at El.25'-0 ½" in 109-N are not shown in the sketches but these rooms are located above Water Quality Lab Rooms 103 to 106 at the south side of the 109-N Building.

FIGURE 3-1. SURVEILLANCE AND INSPECTION ROUTE (105N/109N PLAN VIEW, ELEVATION 0'-0")

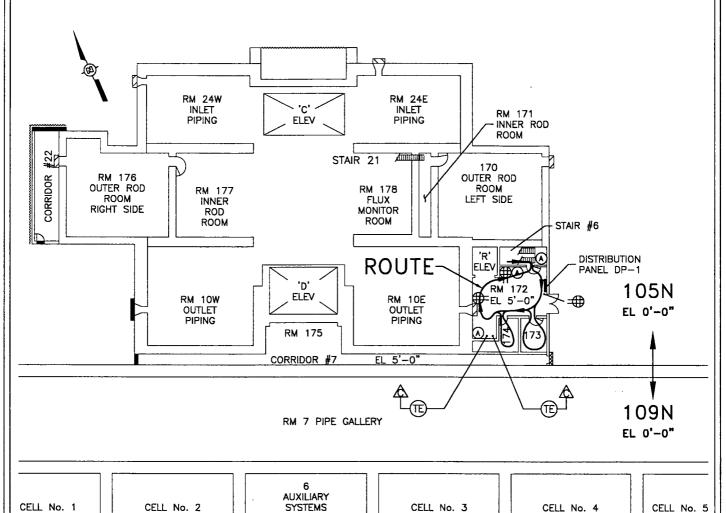
105N/109N (ELEVATION 0'-0")



- ➡ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-2. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 0'-0")

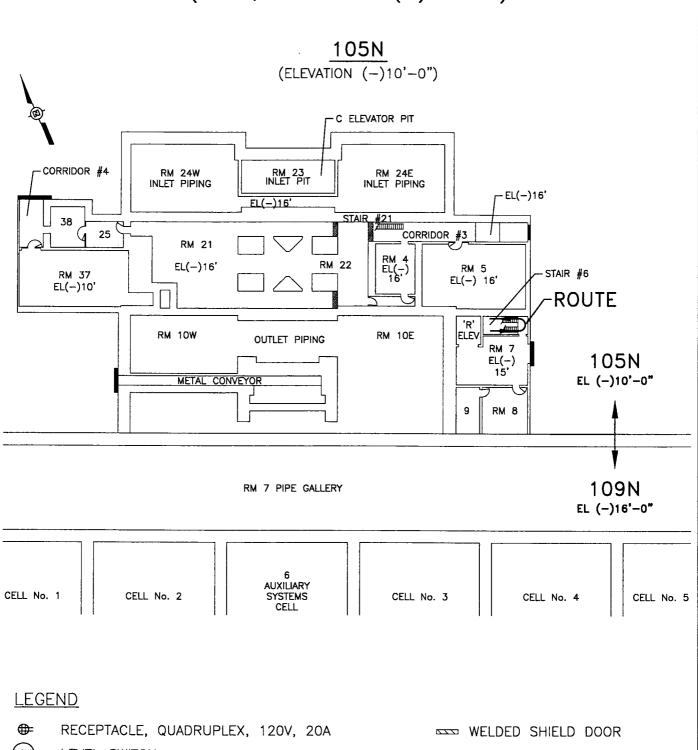




CELL

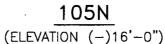
- ⊕ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- welded shield door
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

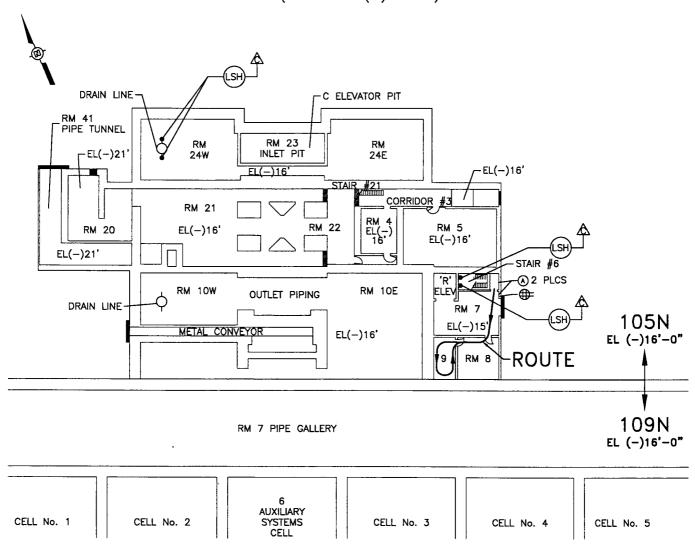
FIGURE 3-3. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)10'-0")



- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-4. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)16'-0")



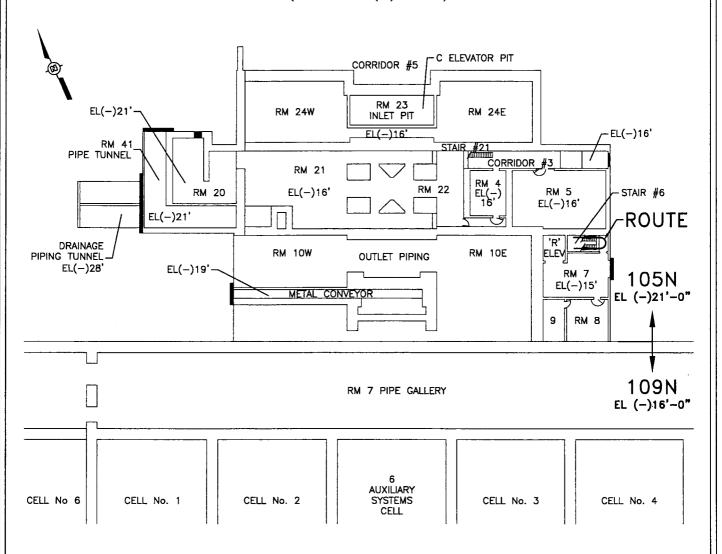


<u>LEGEND</u>

- ⊕ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-5. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)21'-0")

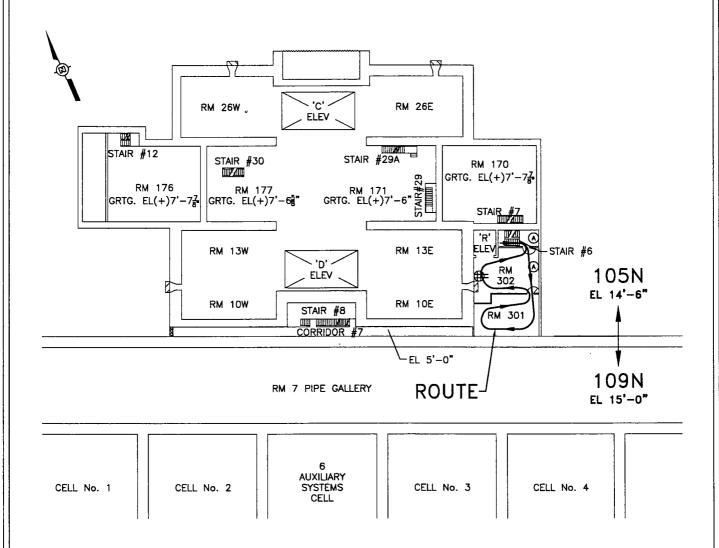
105N (ELEVATION (-)21'-0")



- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (E) TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-6. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 14'-6")

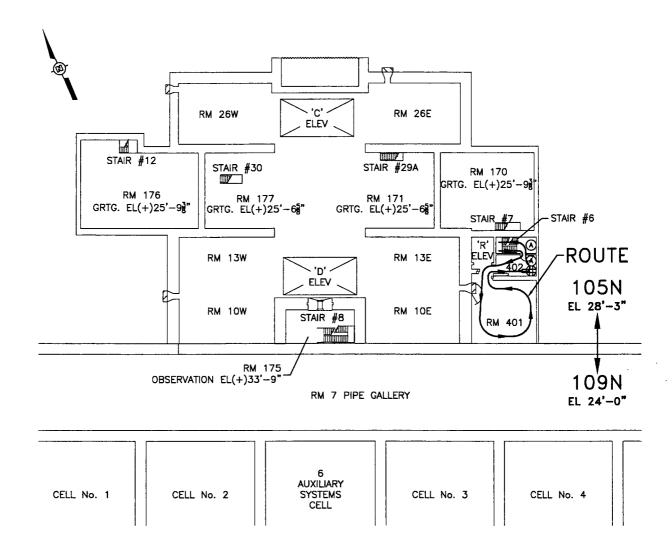
105N (ELEVATION 14'-6")



- ➡ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-7. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 28'-3")

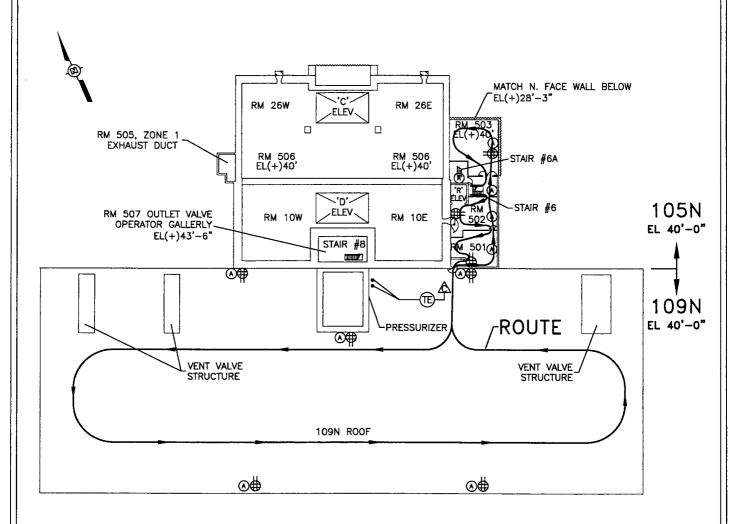




- ➡ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (E) TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-8. SURVEILLANCE AND INSPECTION ROUTE (105N/109N, ELEVATION 40'-0")

105N/109N (ELEVATION 40'-0")

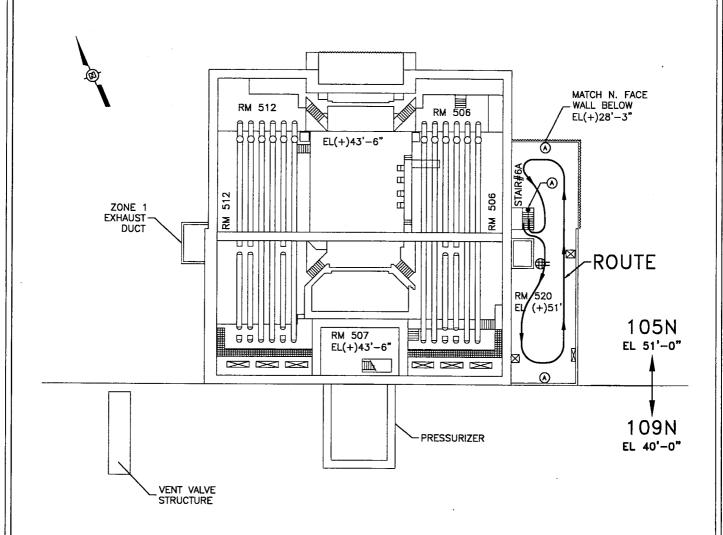


<u>LEGEND</u>

- ➡ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-9. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 51'-0")

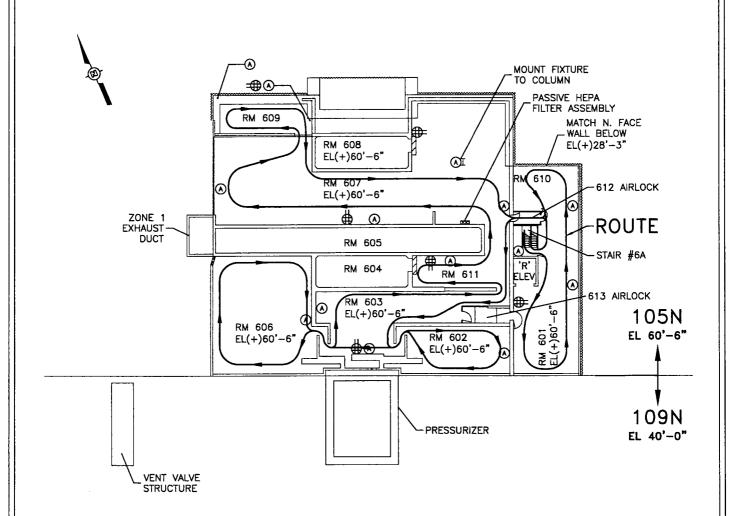
105N (ELEVATION 51'-0")



- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-10. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 60'-6")

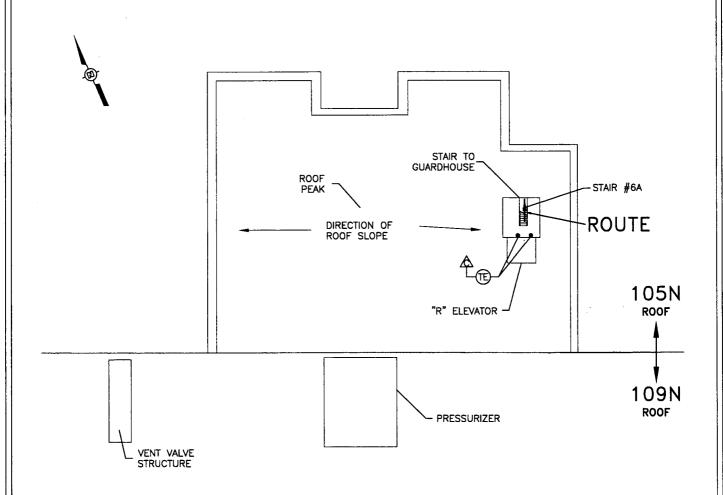
105N (ELEVATION 60'-6")



- ➡ RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- A CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E−WM−530H−MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-11. SURVEILLANCE AND INSPECTION ROUTE (105N, BELOW ROOF)

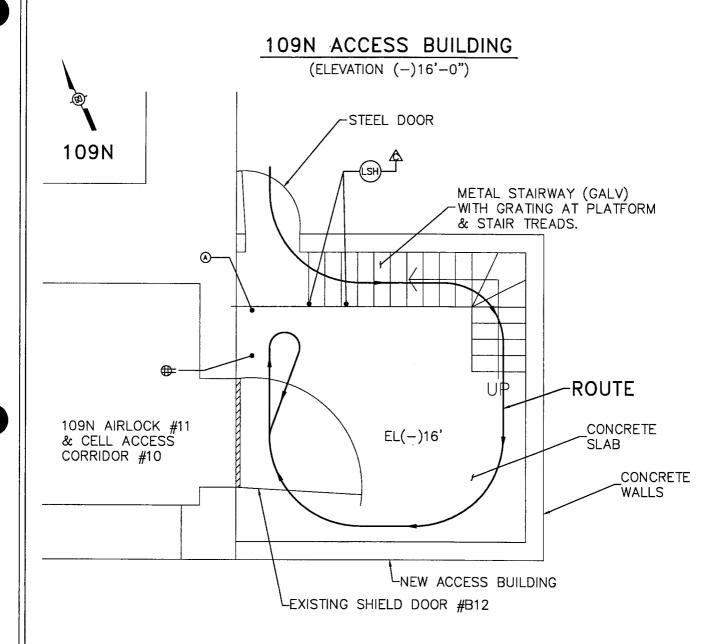
105N (BELOW ROOF)



<u>LEGEND</u>

- ⊕ RECEPTACLE, QUADRUPLEX, 120V, 20A
- LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

FIGURE 3-12. SURVEILLANCE AND INSPECTION ROUTE (109N ACCESS BUILDING, ELEVATION (-)16'-0")



- (LSH) LEVEL SWITCH
- TEMPERATURE SWITCH
- △ CONTROL & MONITORING SYSTEM (CMS) POINT
- METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- ---- METAL ENCLOSURE

3.4 RADIOLOGICAL SURVEY RECORDS

Radiological Survey Records at 105-N & 109-N SSE

<u>INDEX</u>

RSR No.	<u>Date</u>	Building	Description/Location
RSR-100ISS-06-0065	08-16-2006	105N	Rm.170
RSR-100ISS-06-0069	08-16-2006	105N	Rm.170
RSR-100ISS-06-0070	08-16-2006	105N	Rm.170
RSR-100ISS-06-0071	08-16-2006	105N	Rm.170
RSR-100ISS-06-0073	08-17-2006	105N	Rm.176
RSR-100ISS-06-0078	08-21-2006	105N	Rm.177
RSR-100ISS-06-0084	08-22-2006	105N	Rm.170
RSR-100ISS-06-0086	08-23-2006	105N	Rm.171
RSR-100ISS-06-0109	08-31-2006	105N	Rm.170
RSR-100ISS-08-0615	10-08-2008	105N	Rm.170
RSR-100ISS-10-0326	04-13-2010	105N	Rm.7,8,9, R Elevator
RSR-100ISS-10-0327	04-13-2010	105N	Rm.4,5, Corridor#3
RSR-100ISS-10-0697	07-27-2010	109N	Rm.103,104,105,106
RSR-100ISS-10-0725	08-04-2010	109N	Rm.208,307, Stair#7
RSR-100ISS-10-0970	10-14-2010	105N	Corridor#4, Rm.37
RSR-100ISS-10-0986	10-19-2010	105N	Rm.35,41
RSR-100ISS-10-1032	10-27-2010	105N	Rm.35,41
RSR-100ISS-10-1253	12-28-2010	105N	Corridor#22
RSR-100ISS-11-0104	04-06-2011	109N	Roof(Pressurizer)
RSR-100ISS-11-0164	05-04-2011	109N	Rm.103,104,105,106
RSR-100ISS-11-0436	08-20-2011	105N	Roof(West Rod Rm.)
RSR-100ISS-11-0452	08-25-2011	109N	Roof(Main)
RSR-100ISS-11-0457	08-26-2011	105N	Rm.29(Front Face)
RSR-100ISS-11-0542	10-17-2011	105N	Roof(Main)
RSR-100ISS-11-0556	10-23-2011	105N	Rm.23(C Elevator Pit)
RSR-100N-11-2333	12-16-2011	109N	Access Bldg.
RSR-100N-11-2333	12-16-2011	105N	Rm.7,8,9,172-174,Str.#6/6A
RSR-100N-11-2334	12-16-2011	105N	Rm.401,402,501-503,520,
			601-613, R Elevator
RSR-100N-12-0046	01-06-2012	105N	Rm.301,302
RSR-100ISS-12-0062	05-31-2012	105N	Corr.7, Rm.175,507, Stair#8
RSR-100ISS-12-0070	06-05-2012	105N	Corr.7, Rm.175,507, Stair#8
RSR-100ISS-12-0173	07-17-2012	105N	Corridor#22
RSR-NRx-98-0258	02-10-1998	105N	Rm.176,177

1,4										
		RAD	IOL	OGICAL	SURVEY	REC	CORD	į	Page_	1 of <u>5</u>
Type of Survey *Release The potential for	Routine	N/A	ited.	(Work Pro	gress 🗌 Sh	ipmer	Survey RSR -	# 10015S-	06-	0065
RWP # / Rev. # 100155-06-001 r 4 Date 8-16-06 Time 100N Description Characterization scarvey, Initial Cutry into 105-N Left Outr Bod Room O'										
Description C	reracteriza	rtion sarv	cy, -	Initial C.	etry into	105-	N Left Ou	to Pod Ro	XXIII	0'
M										
All radiation reading	ngs are γ dose	rates in units of	mB/hr	unless other	wise indicator		Technical Ass		·	NA NA
Contamination CA Area HCA	High Contamination	Radiological RBA Buffer Area		Airborne Radioactivity Area	Radioa Radioa	active	Radiation RA Area HRA	High Radiation		SR-O(rS
O Technical # Direc	t M Large Area Wipe		Area Dos	Radiological	Δ Micro Rem (μR/hr)	Neutro		Soil		Radiation Area Radioactive SA Material Storage Area
				Instrum	nents				<u>.</u>	
Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model		Serial #	Source ✓ (Initial)	CF	Cal Due Date
RO-20	1506	R	1	7-21-07	M4	\dashv				774
2224-2 43-93	0045	P	6.74 20\$	2-27-07	mA	-				194
RCT Name/Signa	ature/Date/	8-16-0E		visor	Name/Signati	ure/Date:	6	IA-4		

Page 2 of 5

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β .

	Description of		Remo (dpm/1	ovable 00 cm ²)	Total (dpm/100 cm ²)				
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	LAW'S	m	ñ94	21000	20	psA-			m
m-									M
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							1		
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			_		1				
			<u> </u>						
			1				-		
		1			 		-		
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			<u> </u>	<u> </u>	 		+		-
									· ·
m									极

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

•	Contact I	Readings	30 cm Readings		
Location	β (mrad/hr)	γ(mR/hr) wcxcf=dR	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=dR	
Southwest Corner	Ms	75	M	25	
M				HAT	
				<u> </u>	
M				Not	

Page: 3 of 5 **RADIOLOGICAL SURVEY RECORD (continuation)** 100ISS-06-0065 Survey # RSR Additional Information (Drawing, Map, Etc.) Door post HRA HRA Limited Access Uo Lothy (5) \$ 50 40.5 40.5 9 $\overline{\mathbb{S}}$ ò \odot Left Outer Rod Room \$ S S 40.5 2.0.5 <u>(a)</u> AS 10.5 10.5 (G @ ARA LIRA NOO HSY

Smear Counting Results

4 8-16-06 Page: 8 of 5

Survey # RSR-

100ISS-06-0065

Counter Location:				Background (c	pm)	Counter Eff.			
	L4-0075	α		0.2		.360			
	LC-0086 /2007					.230			
	Sample			Co	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)		
1	Floor		α	(1)	2	1.8	5		
			βγ		72	7	30		
2			α		2	1.8	8.16-16 gt 5		
			βγ		55	0	8-16-06 S		
3			α		3	2.8	8-16-05 8 8-16-05 8		
			βγ		79	14	8-16-08 p. 61		
4			α		2	1.8			
			βγ		65	6	8-16-03 178 O		
5			α		2	1.8	8-16-th 8 5		
			βγ		106	41	B16 05 57 178		
6			α		0	0	8-16-06 P 0		
			βγ		78	13	g-1600 78 57		
7			α		0	0	0		
	/		βγ		83	18	78		
8			α		0	0	0		
	. /		βγ		50	0	O		
9			α		0	0	0		
			βγ		61	0	0		
10			α		0	0	0		
			βγ		87	22	96		
11			α			0.8	2		
_	V		βγ		82	17	74		
12	Floor		α		0	0	0		
			βγ		133	68	296		
13	Heat Exchange.	-	α		1	0.8	2		
			βγ		56	0	0		
14	Grating		α		1	0.8	2		
	9		βγ	V	67	2	9		

Page: 5 of 5

	9			iting Results		Survey # RSR	100ISS-06-0065
		IIIeai	Cour	·········	 	J	
	iter Location: ₋ 4-0075		1	Background (c	pm)	_ Co	unter Eff.
	.C-0086	0.2		.360			
6/21/2		βγ		65			.230
	Sample			Co	ounting Results	;	Final Analysis
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
اس.	Hydroulic Pump		α	/1	3	2.8	8
15			βγ	(1)	57	6	O
MA			α				,m4
Mar	.		βγ				
			α				
			βγ				
			α				
			βγ				
			α				
			βγ				
			α				
			βγ				
			α				
			βγ				
			α				
	•		βγ				
	10.000		α				
			βγ				
			9/				
		,	βγ				
			α	,			
			βγ				
			α				
			βγ				
			α				
			βγ				
			α				
IMA			βγ				M

RADIOLOGICAL	SURVEY RECORD Page / of 3								
Type of Survey (check one only) *Release Routine NA Work Progress Shipment *The potential for internal contamination was evaluated. *Survey # RSR - 1001SS - 06 - 0069									
RWP # / Rev. # Date Time Location Code 106 ISS - 06 - 001 r 4 8-16-06 153 0 100 ル									
Description Survey of bag on 14' level o	Description Survey of bag on 14' level of 105-N Left Ower Rod Room								
	270								
-									
All radiation readings are γ dose rates in units of mR/hr unless other	erwise indicated. Technical Assessment # TA -O4-SR-O/ 15								
COntamination High Contamination Radiological Airborne CA Area HCA Area RBA Buffer Area ARA Radioactivity Ar	RADIO RADIO RADIO RADIO RADIO RADIO REPORT RADIO RADIO REPORT RADIO RADIO REPORT RADIO RADIO REPORT RADIO RADIO REPORT RADIO RADIO REPORT RADIO REPO								
O Technical Smear # Direct M Large Area Wipe Contact Smear # Direct Wipe General Area Dose Rates =Uncorrected Meter Reading (mR/hr) Reading (mR/hr)	A Micro Rem (μR/hr) N Neutrons (mRem/hr) (AS) Air Sample SCA Contamination Area RMSA Storage Area								
Instru	ments								
Model Serial # Source ✓ CF Cal Due (Initial) CF Date	Model Serial # Source CF Cal But								
RO-20 1506 R 1 7-21-07	MI WI								
Model 12 0028 R 206 2-207 HP-210 0058 / U-10-06	m. m								
RCT Name/Signature/Date/ CE Crem College And The House of Many College And The House of Man	RCT Supervisor Name/Signature/Date:								
MIDILLENHORERAL MINES 8-16-06	un 5ims w/ blin & 25-06								

Page Z of 3

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Remo (dpm/10			Total (dpm/100 cm ²)			
No.	item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	Masslion LAW of bog	MA	m	21060	20	ma	×165	ilst-	VISA
M									nes
M									m

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

•	Contact R	leadings	30 cm Readings			
Location	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcr=dr	β (mrad/hr) (wo-wc) x cF = DR	γ (mR/hr) wc x cf = df		
Bag	8-16-66 R 20.5	270	20.5	60		
11/4				M		
· · · · · · · · · · · · · · · · · · ·						
W				M		

Smear Counting Results

Page: 3 of 3

Survey # RSR-____

100ISS-06-*0069*

	nter Location:		~	pm)	Counter Eff.			
	_4-0019 _C.0040	α		0.2			.370	
	-C-0042 5/2006	βγ		60			.200	
	Sample	. •		C	ounting Results		Final Analysis	
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)	
1	BAGON ELL 156T-LISTION ROD ROOM	EV ER	α βγ	<u>Í</u>	2 63	1.8	4.9 15	
2	W.		αβγ			3	M	
3			α					
4			α					
5			βγ					
6			α					
7			α					
8			α βγ	/				
9			α βγ					
10			βγ					
11			α βγ					
12			α βγ					
13			α βγ					
14	MA		α				117	

RADIOLOGICAL	SURVEY RECORD Page / of 3								
Type of Survey (check one only)	Survey # RSR - [DD/SS-06 -0070]								
Date Time Location Code 100155-06-00154 8-16-06 1600 1000 Description Control Point surveys from Left Outer Rod Room Entry									
Description Control Point surveys from Les	Of Outer Rod Room Entry								
RBA (D) RBA									
All radiation readings are γ dose rates in units of mR/hr unless othe	Radioactive Radiation High Radiation Very High								
CA Area HCA Area RBA Buffer Area ARA Radioactivity Area Technical # Direct M Large Area Wipe Contact 30 cm Meter Reading (mR/hr) Radiological Boundary XX									
Instru	nents								
Model Serial # Source ✓ CF Cal Due Date	Model Serial # Source ✓ CF Cal Due (Initial)								
2224-2 43-93 0136 P 6.74- 20B 2-27-07	M								
RCT Name/Signature/Date:	RCT Supervisor Name/Signature/Date:								
CE Cron College 8-16-06	msins juldin 3-25.06								

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Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No	Description of Item or Location		Remo (dpm/10		Total (dpm/100 cm ²)				
No.		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
	LAWS	m	nn	41000	20	M	M4	ner	200
M.									M
									-
			_				1		
			_						
									+
		+		$\overline{}$					
									
									-
			1		1				
W									M

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

•	Contact I	Readings	30 cm Readings			
Location	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=dr	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=DR		
MA				M		
				·		
ing	• .			1113		

Smear Counting Results

Page: 3 of 3

Survey # RSR-____

100ISS-06-0070

				iting nesuits	l	00033-00- € 5				
	nter Location: L4-0075			Background (c	pm)	Counter Eff.				
	LC-0075 LC-0086	α		0.2						
	/2007	βγ		65		.230				
	Sample			Co	ounting Results		Final Analysis			
No	Description of Smear Location		Con. Sample Count Type Duration (min.) Gross CPM Net CPM		Net CPM	Removable (dpm 100 cm²)				
1	Notepad		α		2	1.8	5			
· 	•		βγ		78	13	57			
2	Model 3		α	/	D	D	0			
			βγ		38	0	0			
3	RO-20		α		0	0	0			
			βγ		68	3	13			
4	Resp(z)		α			0.8	2			
			βγ		66	1	4			
5	Lapel (3)		α		2	1.8	5			
	,		βγ		64	0	0			
6	Pen		α		0	0	0			
			βγ		53	0	0			
7	Door		α			0.8	2			
			βγ		63	0	0			
8	Lt Stand		α	/		0.8	2			
			βγ		74	9	39			
9	Lt Stowd		α		Ó	0	0			
	000 51		βγ		71	6	26			
10	RBA Floor		α		2	1.8	5			
	DDA DI		βγ		64	0	0			
11 ·	RBA Floor		α		<u></u>	0	0			
	CPA CI		βγ		69	4	17			
12	RBA Floor		α		3	2-8	8			
			βγ		62	0	0			
13	SOP		α	V	1	0.8	2			
			βγ		52	0	D			
14	M		<u>-α</u>							
			βγ				<i>[[]</i>			

RADIOLOGICAL SURVEY RECORD									
				Pag	ge_/_ of	<u>ලි</u>			
Type of Survey (check one only) *Release Routine * The potential for internal contamination		ess 🗌 Shipment	Survey # RSR –	100155-	06-00	>7/			
RWP # / Rev. # 100155-06-001 r-4	Date 8-16-06	Time 1600	Location (
Description Left Outer Rod Room Levels 14'3" to 40' characterization survey									
Area being surveyed posted as CA, HRA									
NA	,					40A -			
/.	-			`					
nu4						W4			
All radiation readings are γ dose rates		vise indicated.	Technical Asse	ssment # 174	-04-5R-01	<u>r5</u>			
CA Area HCA Area RBA	Radiological Buffer Area ARA Radioactivity Area	RMA Materials Area	Radiation RA Area HRA	High Radiation Area VHR	Very Hi A Radiation				
Technical # Direct M Large Area Smear # Direct M Wipe Control	— Bates =Uncorrected Im	Δ Micro Rem N Neutro (μR/hr) N (mRem/	ns Air Sample hr) [AS] Location	Soil SCA Contaminatio Area	on RMSA Ma	ioactive aterial ige Area			
Instruments									
	Source V CF Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF Call Da	ite			
43-93 0136	K 20B 2-27-07					-ma			
RO-20 1506 RCT Name/Signature/Date:	R 1 7-21-07	PCT Supervisor	Namo/Cianata	ro/Deta:		ina			
CE Orem Com 8-1	16-06 16-06	RCT Supervisor	ivame/oignatu	re/Date:					
MIDITENHAUSER 8-	16-06	moins up	12i-	8-23-00					

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Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β .

No.	Description of Item or Location		Remo (dpm/10	vable 00 cm ²)	Total (dpm/100 cm ²)				
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
MA									-M-
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							ļ		
		<u> </u>					ļ		
					ļ		<u> </u>		
		ļ							
							<u> </u>		
M									m

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

	Contact F	Readings	30 cm Readings			
Location	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=br	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=dr		
Bag OD IH' level	BIJOS NA	270	mg 8 3/3/04	60		
Rod Coutrol Rom 28' level	NA	2.6	NA	1.5		
Rod Coutrol Ram 40' level	m4	1	MS	0.6		
M				M		
MA				D4		

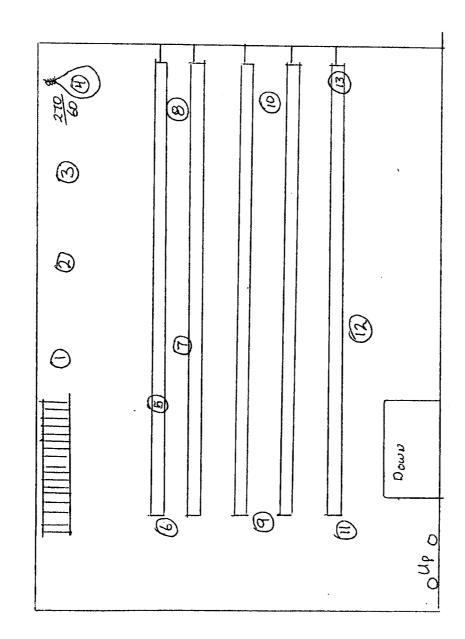
Survey # RSR_

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100ISS-06-007/

Additional Information

(Drawing, Map, Etc.)



Left Outer Rod Room 14' level

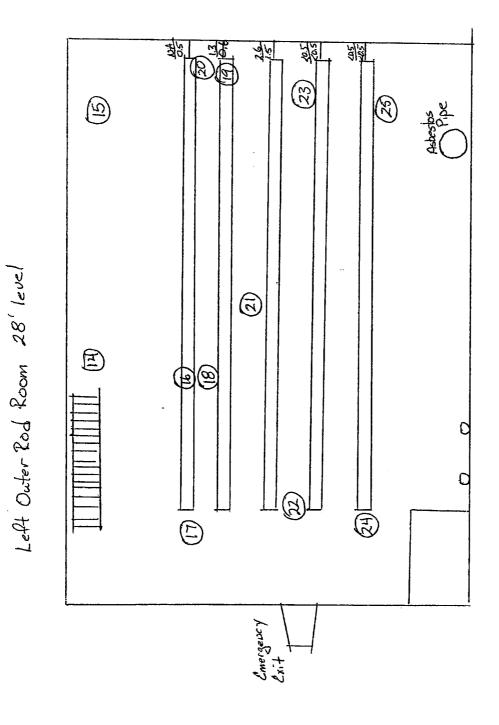
Survey # RSR

Page: 식 of 용

100ISS-06-*0071*

Additional Information

(Drawing, Map, Etc.)



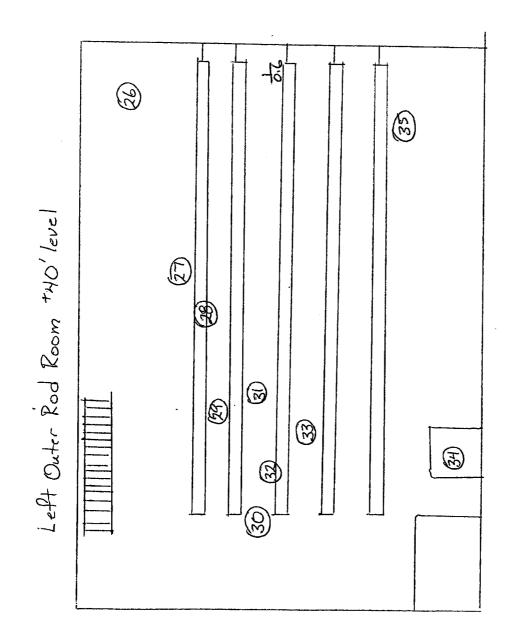
Survey # RSR

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100ISS-06-0071

Additional Information

(Drawing, Map, Etc.)



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Smear Counting Results

Survey # RSR- 100ISS-06-207/

	3	ınedi	Cour	iling Results		3divey # 113115 100133-00-207)				
	nter Location:		r-	Background (c	pm)	Counter Eff.				
	L4-0075 LC-0086	α		0.2		.360				
	/2007	βγ		65	***		.230			
Sample				Co	ounting Results		Final Analysis			
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm ²)			
1	Floor		α	11	0	0	<20			
			βγ		<i>5</i> 3	0	<1000			
2			α	/	0	0	Z20			
			βγ		61	0	4000			
3	\		α		0	0	<u> </u>			
	V		βγ		_53	0	<1000			
4	Bog		α		В	0	Z20			
•	<u> </u>		βγ		54	0	<1000			
5	5 Tray		α		2	1.8	5.0			
	, 1144		βγ		61	0	41000			
6	Floor		α		0	0	८ २०			
			βγ		<i>_73</i>	8	34			
7			α)	-8	2.0			
			βγ		55	0	<1000			
8			α		0	0	L20			
	\		. βγ		79	14	60			
9			α		0	0	<20			
			βγ		<u> 55</u>	0	41000			
10	\		α		0	0	<20			
			βγ		<i>73</i>	8	34			
11	\		α		0	0	L20			
			βγ		_58_	0	<1000			
12			α		0	0	<20			
	<u> </u>		βγ		51	0	4000			
13	Ram		α		1	-8	2.0			
			βγ		128	47	202			
14	Floor		α	·····	0	0	<i>Z20</i>			
			βγ		62	0	<1000			

Smear Counting Results

Page: 2 of 8

Survey # RSR- 100ISS-06-007/

	<u> </u>	mear	Cour	nting Results		Survey # HSH	100155-06-0077		
	nter Location:			Background (d	pm)	Counter Eff.			
	L4-0075 LC-0086	α		0.2		.360			
	2007	βγ		65	·	.230			
	Sample			C	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)		
15	Floor		α βγ	-(-)	1	-8	2-0		
	D I.)4 0		39.0		
16	Rack		α βγ	1	<i>5</i> 7	0	420 41000		
17	Floor		α		0	0	420		
			βγ		64	0	21000		
18	Floor		α		0	0	<i>∠20</i>		
10			βγ		62	0	41000		
19	Ram		α		3	2.8	8.0		
			βγ		87	22	95		
20	Floor		α		0	0	420		
~			βγ		8/	16	69-0		
21			α		0	0	120		
,			βγ		62	0	START LICOO		
22			α		0	0	Z20		
	•		- βγ		68	3	13-0		
23			α		<u></u>	-8	a.0		
~J			βγ		83	18	77:0		
24			α		O	0	L20		
			βγ		52	0	000</td		
75	Floor		α		0	0	420		
~			βγ		88	23	99		
26	Floor		α		1	<i>.</i> 8	2.0		
			βγ		59	0	41000		
27	Floor		α		<i>J</i>	-8	2.0		
			βγ		67	<u> </u>	9.0		
28	Traigh		α		0	0	L20		
			βγ	W	66		4.0		

Smear Counting Results

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Survey # RSR-___

100ISS-06-007/

	nter Location:			Background (c	pm)	Counter Eff.			
	L4-0075 LC-0086	α		0.2		.360			
	/2007	βγ		65	••••••	,230			
	Sample			Co	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm ²)		
29	Floor		α	$\left(\begin{array}{c} 1 \end{array} \right)$	0	0	<20		
			βγ		<u> 75 </u>	10	43		
30	Floor		α βγ		0 74	9	220 39		
31	Floor		α		0	0	<20		
اں —			βγ		59	0	<1000		
32	Pipios		α		Ó	0	<i>L</i> 20		
	, 0		βγ		_60	0	<1000		
33	Floor		α βγ		<u> </u> 	- 8 9	2.0		
34	Floor		α		0	0	39 220		
<i>-</i>			βγ		20	5	<i>a</i> 2		
35	Floor		α		0	0	Z20		
			βγ	V	52	0	<1000		
W			α) Ala		
	-		βγ						
			α		*****				
			βγ						
			βγ						
			α						
			βγ						
		_	a						
		_	βγ						
			α Bo						
			βγ α						
M			βγ						
1119			P1				TAG		

			 -								
		RAI	DIOL	.OGICAL	. SURVEY I	RECOF	RD			1	
T. / 0									Page		\mathcal{I}
U	ey (check one Routine printernal contam		uated.	⊠ (Work Pro	ogress 🗌 Ship	ment	Survey RSR -	# - 100155-	06-0	0073	
	.# 06 -001 i			ate 3-17-06	Time 1400)	Location	n Code	 -		
Description	Right Oute	er Rod Ro	com	Cheroche	nizetion s	scervey	14'	7 40			
Oil on p	ushrods	is highlar	Car	tonieval		***************************************					
Downpas	ushrods kd RBA i	when ju	up c	onpleted	S.G.						
mA		v	•								
										M	l
										*	
					\times						
		-									
M										M	
Il radiation readi	ngs are γ dose i	rates in units of	mR/hr	unless othe	rwise indicated.	Techr	nical Asse	essment # 7	1A-04-3		<u>, </u>
Contamination Area HCA	High Contamination Area	Radiological RBA Buffer Area	ARA r	Airborne Radioactivity Area	Radioactive RMA Materials Are	- In-	iation ea HRA	High Radiation Area	/HRA	Very High Radiation Area	
Technical # Dire	ct M Large Area . Wipe	Contact General Rates =U Meter Rea	Area Dose Incorrected ding (mR/h	Davida	Δ Micro Rem N $_{(\mu R/hr)}^{N}$ N $_{(m)}^{N}$	eutrons Rem/hr) [AS]	Air Sample Location	Soil SCA Contamir Area	nation RM	Radioactiv SA Material Storage An	- 1
				Instrun	nents	<u></u>					1
Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Se	rial #	Source ✓	CF	Cal Due	∍
74-2 :-93	0136	R	6.7L 20B	2-27-07	Model 12 HP 210	0028		(Initial)	8-17-6 2084 12.5	Date 2-2-07 11-10-06	
o.20	1321	R	1	3-8-07	m7				12.5		1
CT Name/Signa E Orem	ature/Date/	8-17-06			RCT Supervisor Name/Signature/Date:					1	
2). Wellia		Illian 5	117/06		MSins	w/s	1	8-17-6	<u>،</u> د		

Page 2 of 9

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

	Description of		ovable 00 cm ²)	Total (dpm/100 cm ²)					
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	LAW Push Kod	NA	NA	37.5K	12.5 2008	ma	1114	m3	ma
2	LAW General	M4	m	12500	12.5	114		·	m
mA					m				
*									
								X	
									1
m					Ms	m			neg

Corrected Dose Rate Calculations

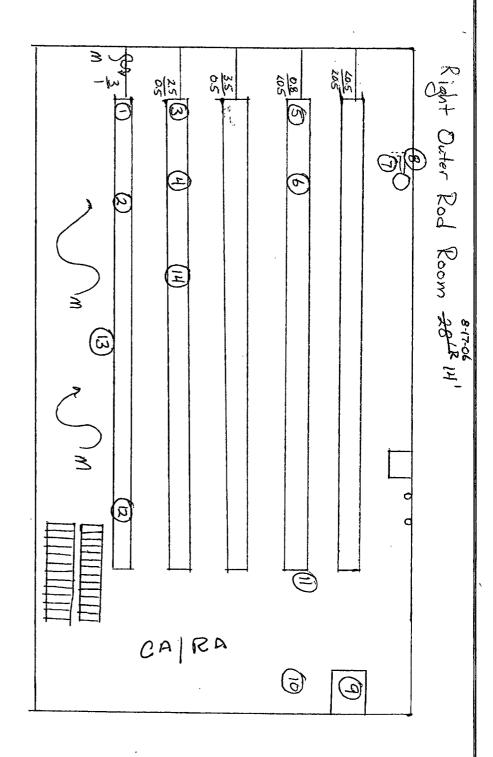
	Contact I	Readings	30 cm R	eadings
Location	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=DR	β (mrad/hr) (wo-wc) x CF = DR	γ(mR/hr) wcxcr=da
14' Level	NA	3	m4	1
28' Level	NA	3.5	m	0.8
40' Level	NA	2.8	NA	0.7
WA				10A
M				WA

Page: 3 of 9

Survey # RSR_

100ISS-06-0073

Additional Information (Drawing, Map, Etc.)

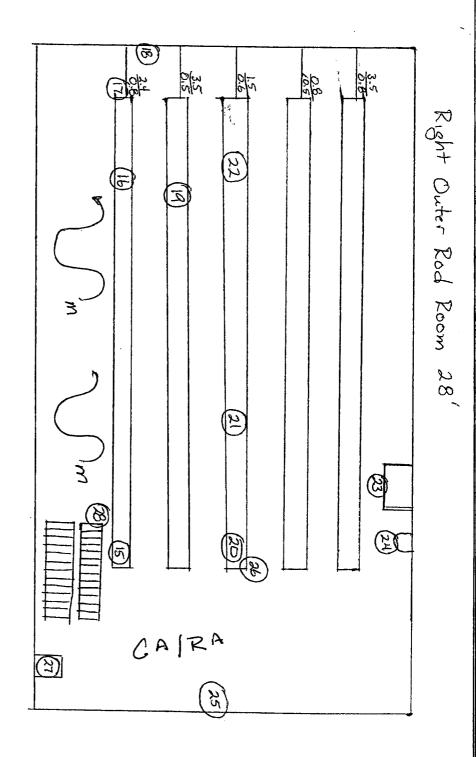


Page: 4 of 9

Survey # RSR

100ISS-06-0073

Additional Information (Drawing, Map, Etc.)

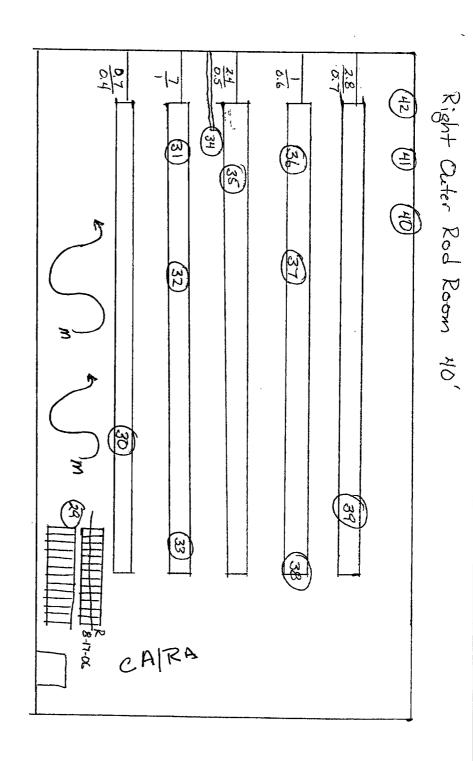


Page: 5 of 9

Survey # RSR

100ISS-06-0073

Additional Information (Drawing, Map, Etc.)



Smear Counting Results

Page: 6 of 9

Survey # RSR- 100ISS-06-0073

Counter Location:			Background (c	pm)	Co	unter Eff.		
SCLL4-0019 DTLLC-0042	α		0.2			.370		
12/15/2006	βγ		60		.200			
Sample			C	ounting Results		Final Analysis		
No Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm ²)		
1 Rod Sleeve Grees	Se.	α		1	0.8	2 2425		
2 Tray		βγ α		545 -0	485	272C		
2 /		βγ		7/	11	55		
3 Rod Sleeve Gre	Ø5e	α		4	0	<u></u>		
		βγ		963	903	4515		
4 Drive Chein		α		0	ð	0		
		βγ		&2 0	22	110		
5 Sleeve		α				4		
		βγ α		243	183	91.5		
e Iron		βγ		84	24	भारक 120		
, Cooling Weter Pu	np	α		4	3.8	10		
, ,		βγ		292	2.3.2	1160		
8 Wall		α		Q	0	Ð		
-		βγ		250	190	950		
9 Table		α		0	-6	0		
		βγ		63	9	40		
10 Floor		α		3	2.53 mu allow	8		
Pressure Reduce	_	βγ		62 D	0	2		
11 Plessuic Reduce		α βγ		65	8	-		
12 Howdroil		α		1	0.8	8 8 2		
12 MODDIOIL		βγ		72	7	35		
13 Column		α		0	0	35 0		
		βγ		64	8	0		
14 Copper Tubing		α	$\left(\right)$	64	1.8	<u>5</u> 290		
		βγ		118	58	290		

Smear Counting Results

Page: 7 of 9

Survey # RSR-____

100ISS-06- 007.3

Counter Location:			Background (c	pm)	Co	unter Eff.
SCLL4-0019 DTLLC-0042	α		0.2			.370
12/15/2006	βγ		60			.200
Sample			Co	ounting Results		Final Analysis
No Description of Smear Location	-	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
15 Roil	:	α βγ	$\left \left(\begin{array}{c} 1 \\ 1 \end{array} \right) \right $	82 2	1.8 22	_ <u></u>
16 Metal Track		α		1	0.8	2
17 Push Rod		α βγ		70 2	1.8	50 5 1165
18 Wall		α βγ		<u>293</u> 0 54	233 +	0
19 Metal Box		α βγ		2	1.8	5 245
20 Metal Roil		α βγ		0	6	<i>D</i> 30
21 Troy		α βγ		0	0	0
22 Sleeve		α		1 96	0.8	2.2
23 Howdroil		α βγ		4	3.8	180
24 Small Ledge		α βγ		3	2.8	7.6
wall		α βγ		213 4	153 3.8	765 10.3
26 Airline		α βγ		73 0 56	0	65
27 Troy		α		0	0	0
28 Howdroil		βγ α	(1)	83 4	23 3.8	115
		βγ	[1]	72	12	60

Smear Counting Results

Page: 3 of 9

Survey # RSR-_

100ISS-06-*か*カフマ

	3	mear	Cour	iting Results		ourvey # non	100133-08-207.5		
Ħ	nter Location:			Background (c	pm)	Co	unter Eff.		
1	L4-0019 LC-0042	α		0.2			.370		
1	5/2006	βγ		60		.200			
	Sample			C	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)		
	Haudroil	•	α	(1)	1	0.8	2.2		
29			βγ	(1/	61.	1	5		
	Red Ducker		α	/	1	6.8	2.2		
30			βγ		116	56	0		
	Push Rod		α		0	0	0		
31			βγ		291	231	1155		
	Verticle Insular	kd	α		0	٥	0		
32	Pipe		βγ		50	D	0		
33	Flexhose		α		4	3.8	10.3		
			βγ		73	13	65		
34	Horizowki Pipe		α		0	0	0		
,	Protusion		βγ		67	7	35		
35	Mole!		α		0	0	0		
	Roiling		βγ		66	6	30		
36	Choip		α	<u> </u>	0	0	0		
00			βγ		75	15	75		
37	Under		α			0.8	2.2		
	Drippen		βγ		62	2	10		
38	I" Beom		α		0	0	0		
50			βγ	-	54	0	0		
39	Accumulator		α	<i> </i>	0	0	0		
		1	βγ		43	0	0		
40	Spring Can Shoe absorber	t	α βγ	} <i>-</i>	271	0.8	7.2 730		
	Woll		α		206 2	146	4.9		
4/	Woll		βγ	·····	185	125	625		
Lia	Woll	-	α		0	0	0		
42	No.		βγ	V	56	O	0		
	L			1					

Smear Counting Results

Page: 9 of 9

Survey # RSR- 100ISS-06-6073

	S	mear	Cour	iting Results	,	Survey # HSH	100155-06- <i>607</i> 3
	nter Location:			Background (d	pm)	Co	unter Eff.
İ	_4-0019 _C-0042	α		0.2			.370
1	5/2006	βγ		60			.200
	Sample			С	ounting Results		Final Analysis
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
	SOP		α	(1)	1	0.8	2.2
43			βγ	11/	75	15	75
أداء	Right Duter Rod		α		0	0	6
44	Room door		βγ		69	9	45
	Floor		α		Ó	0	0
45			βγ		65	5	25
41/			α		0	0	0
46	(βγ		52	0	0
217			α		0	0	Ó
47			βγ		61	1	5
			α		0	0	Op
48			βγ		65	5	811th 25 25
160			α	<u> </u>	Ø	0	0
49	Y		βγ	4	59	0	0
			α				_ m4
MA			βγ				
			α	*************			
			βγ				
			a				
			βγ				
			α		\times		
			βγ				
		_	ω.				
			βγ				
'			α				
			βγ				
1			α				
MA			βγ				ma

		RADIC	LOG	GICAL SI	JRVEY	REC	ORD	Pa	ge_1	of 🗲
Type of Survey (*Release The potential for integration of the content of the c	Routine N	IA .		√ork Progre	ess □ Shi	pment	Survey # RSR 10	0ISS-06-0	0078	
RWP # / Rev. # 100ISS-06-001/0	4		Date 8/21/0	06	Time 1630		Location C	ode		
Description 105N Right inner	rod room – fi	rst floor		and the second second second second						
This survey was partification the area on page 4.	ea. Smear res	sults are found	on pa	ge 3. Dose	rate result	s and s	smear locations	ose rates we s are found	ere tak on the	en drawing
		Locations of a	ir sam	ples are fo	und on the	attach	ed drawing	٠		
•		-								
All radiation read	ings are γ dose		of mR/h		r		Technical Asse		A-04-	SR-01/5
CA Area HCA	Area F			Airborne adioactivity Area	RMA Materi		RA Area HRA	1	HRA E	Very High Radiation Area
Technical # Direct	M Large Area . Wipe	Contact General A Rates =Un Meter Readi	corrected	Radiological Boundary xx	Δ Micro Rem (μ R/hr)	N Neutro	ons Air Sample /hr) [AS] Location	Soil SCA ^{Contamina} Area	tion RM	Radioactive SA Material Storage Area
	.		.,	Instrum	ents					
Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Mode	ı	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2929	0075	5 MID	~-2G &-7-3	6-21-07	TELETI	TOR	0019	MTD	NA	5/31/06
A0-20	1508	mto	NA	7-21-07	NA					
RCT Name/Signa	ature/Date:	ell.	8-77.	-06	RCT Supe	ervisor	Name/Signatu	re/Date:		
MINTHENHOV	516Q/101 A	TO B	-97-1	26	m Sia	5 U	of Sine	8.31.06	•	

WCH-TM-R006a (03/15/2006)

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

Page 2 of 4

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β-

No.	Description of	(Removable (dpm/100 cm ²)					Total (dpm/100 cm ²)				
INO.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F			
0	SEE PAGE 3											
	u ,											
			2/	1								
				17								
		,										

Corrected Dose Rate Calculations Show all work. CF = 1 unless noted.

	Contact I	Readings	30 cm Re	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ(mR/hr) wcxcf=dr	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wcxcf=dR
SEE PAGIE S				
		,		
	/			
		17		

Smear Counting Results

Page: 3 of <u>4</u>

Survey # RSR-_

100ISS-06-007g

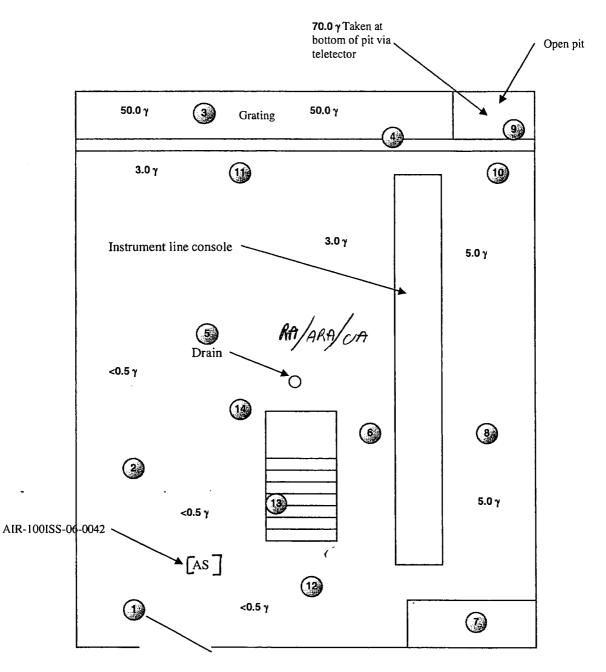
•	nter Location:			Background	d (cpm)	Cou	unter Eff.
8	_4-0075 C-0086	α		0).2		.360
i	OTLLC-0086 6/21/2007 Sample			6	65 		.230
	Sample				Counting Results		Final Analysis
No	Description of Smear Location		Con. Type	Sample Coun Duration (min		Net CPM	Removable (dpm 100 cm²)
1	F200D		α	$\left(1\right)$	4	3.8	10.6
	72002		βγ		296	231	1016
2	; ;		α		4	3.8	10-6
	FLOOR		βγ		742	677	2979
3	TRENCH GRAT	TNG	α		0	0	<20
			βγ		68	3	13-0
4	TRENCH CONCA	尼尼	α		3	2.8	8.0
			βγ		342	277	1219
5	FLOOR DAAN	$\dot{\sim}$	α		3	2.8	8.0
	5 FLOOR DAA		βγ		988	923	4/01
6	Final		α		a	1.8	5.0
	FLOOR		βγ		3/9	254	11/8
7	CONCRETE		α		ک	1-8	5.0
	BUNKER		βγ		347	282	1241
8	FLOOR		α		み	1-8	5.0
	J 2002		βγ		270	705	3102
9	5/DEWALL O	3,F	α		0	0	<20
	5UMP		βγ		263 S	198	871
10	FLOOR		α			7.8	13.0
			βγ		871	806	3546
11	FLOOR		α		0	0	< みの
	72007		βγ		292	227	1219
12	FLOOR		α		3	2.8	8.0
	/ // \		βγ		425	360	1584
13	<i>HAND RR</i>) へ		α		Ø	0	<20
			βγ		84	19	87
14	FLOOR		α		2	1,8	5.0
			βγ	V	39/	329	1448

Page: $\frac{4}{9}$ of $\frac{4}{9}$

Survey # RSR-100ISS-06-0078

Additional Information

(Drawing, Map, Etc.)



Building 105N – 1st floor right inner rod room

Sample AIR-100iss-06-0043 taken in outer rod room

		RAD	OIOL	OGICAL	SURVE	Y REC	ORD			-
							, O. (D		Page_	<u>ک</u> of <u>ک</u>
Type of Surve *Release The potential for			ated.	∡ Work Prog	gress 🗌 S	Shipmen	Survey :	# 1 <i>0</i> 0/55 -	·06 -	0084
RWP # / Rev. /00/55- Description	# 06-001	14	Dai	te -22-06	Time	0	Location	Code		***
Description 2	eft Outer	Rod Ro	om	entry	for ex	gipee	er welk	Jown		
Itms relea	ised IAW	WCH 200	4.	4	81 July 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Lugincer,	escondad	by RCT, i	ewr	ewhered f	Peld > 1	m sem/	hr-			
m										
										MA
					~ -~~	. 77				
				(C)((임(C	Y _			` '7	
								4 4	(0).	
					\sim					
	1/									
		•								
All radiation readi	ngs are v dose	rates in units of	mD/hr	unloss other		.]	F- 4 1 4 A			m
Contamination A Area HCA	High Contamination Area	Fladiological		Airborne	Rad	oactive	Technical Asso	High Radiation	74-04 -	Very High
Technical # Discontinuo	M Large Area	Contact General	Area Dose		RMA Mater	als Area R/	1	Area V	HRA I	Radioactive
Smear # Direc	Wipe	30 cm Meter Rea	ding (mR/r	xx	Δ (μR/hr)	N Neutrons (mRem/h	r) [AS] Location	SCA Contamin Area		
N A1 - 1		Source ✓		Instrum Cal Due	ents			T	· r	<u>ا د د د</u>
Model	Serial #	(Initial)	CF	Date	Mode		Serial #	Source ✓ (Initial)	CF	Cal Due Date
RO-20 2224-2 43-43	0045	R	6.74	3-8-07 2-27-07			>	_		
RCT Name/Signa RCT Name/Signa RCT Name/Signa	ol36 /		208		RCT Sune	rvisor N	ame/Signatu	ire/Date:		an
E Chem Co	Ell 8	-12-06								
· · · · · · · · · · · · · · · · · · ·					un Sim	3 suf	1	8-31-06		

Page 2 of 3

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

	Description of	(vable 00 cm ²)	Total (dpm/100 cm ²)					
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
MA									M
					<u> </u>				
					<u> </u>				
									<u> </u>
		er star	111						
	COR				<u> </u>				
				ļ	<u> </u>				
			ļ				<u> </u>		
MA									M

Corrected Dose Rate Calculations

	Contact	Readings	30 cm R	eadings
Location	β (mrad/hr) (wo-wc) x cf = DR	γ(mR/hr) wcxcf=DR	β (mrad/hr) (wo-wc) x CF = DR	γ(mR/hr) wc x cf = DR
Wolkthrough General Anera	1114	20.5	int	20.5
m4 ·				NA
M				piq

Smear Counting Results

Page: 3 of 3

Survey # RSR-____

100ISS-06-*008*

Counter Location:			Background (c	:pm)	Counter Eff.			
SCLL4-0071	α		0.08	·		.360		
DTLL6-0083 3/8/2007	βγ		63			.220		
Sample			Ce	ounting Results		Final Analysis		
No Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)		
1 Camera		α	//\	3	2.92	8.11		
		βγ		47	0	0		
2 Yellow Floshigh	+	α		2	1,92	5.33		
	1	βγ		66	3	13.6		
3 Red Flashligh	ナ	α βγ	(-'-)	10 76	9.92	27.6 59.1		
11 SOP		α		1	0.92	2.56		
4 501		βγ		58	0	0		
5 RBA		α		2	1.92	5.33		
		βγ		58	RADIO	NO O		
6 RBA		α	·····	0		ገ <i>ህ </i>		
		βγ		70	7	31.8		
7 RBA		α			0.92	2.56		
		βγ		67	4	18.2		
B RBA		α		1	0.92	2.56		
		βγ	V	49	0	0		
a Red Fleshligh	<i>†</i>	α	/ \	3	2.92	8.11		
1		βγ	(1)	64	1	4,55		
M		α				M		
		βγ						
	_	a						
		βγ						
		α						
		βγ						
		α						
		βγ						
		α						
M		βγ						

* 2 Smear caused after I hour decay @ 1100 8/22/06

		RADIO	OLOC	GICAL SU	JRVEY REC	ORD	Paç	ge_1	of 8
Type of Survey (*Release The potential for in	Routine	N/A		Vork Progre	ess 🗌 Shipmen	Survey # RSR- 1	00ISS-06-0	086	
RWP # / Rev. # 100ISS-06-001/0)4		Date 8/23/0	06	Time 1600	Location (Code		
Description Left Inner Rod R	oom Dad Su	nov		_					
			tion S	Survey of t	he Left Inner	Rod Room	nside 105N	۷.	
Area Poste PAPR per R	d HRA/AR/ CS. Found	A/CA Due to one localize	ed are	a in catch evels, sm	litions entered basin on 1 st ear # 7. R DETAILS	d area in Tw level of inne	o pair of ar r Rod Roor	nti C's n witi	and h HCA
Instruments us	sed RO20	1506 CDD	7-21-	06					
All radiation read	dings are γ dos	se rates in units	of mR/h	nr unless othe	erwise indicated.	Technical As	sessment #	ΓA-04-	SR-01/5
Contamination HCA	High Contamination Area	Radiological RBA Buffer Area	ARA R	Airborne ladioactivity Area	Radioactive RMA Materials Area	Radiation RA Area HRA	High Radiation VI	-IRA F	Very High Radiation Area
Technical # Direct	M Large Area Wipe	Rates =1	Area Dose Uncorrected ading (mR/h	Boundary		trons Air Samplem/hr) [AS] Location		tion RM	Radioactive SA Material Storage Area
				Instrum	nents	·			
Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
Electra/DP6	0001/0049	BA	20	5-31-07	2929	147743	BA	2.7	12-15-06
PAM	0215/0540) pp	6.7	7-20-07	43-10-1	170381	BK	5	6-21-07
RCT Name/Sigr BRANDO CHUCK OREM	N HAMILTON	1 Jan 6	16 - 06	E 8-23-4	RCT Superviso	or Name/Signat	ure/Date:		

Page 2 of 8

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm ²)				Total (dpm/100 cm ²)			
NO.		α	α C-F	β-γ	β-γ C-F	α	ი C-F	β-γ	β-γ C-F
0	Smear #7 catch basin 1 st level	94	6.7	422k	20	NA	NA	NA	NA
						,			
									
NA									

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm Re	eadings
Location	β (mrad/hr) (wo-wc) x cf = DR	γ (mR/hr) wc x cf = DR	β (mrad/hr) (wo-wc) x cf = DR	γ(mR/hr) wcxcr=dr
1 st Level	NA ·	50	NA	10
2 nd Level	NA	110	NA	20
2 nd level	NA	20	NA	5
3 rd level	NA	30	NA	15
3 rd level	NA	7	NA	3
NA_				
				·
	1.4			
				A

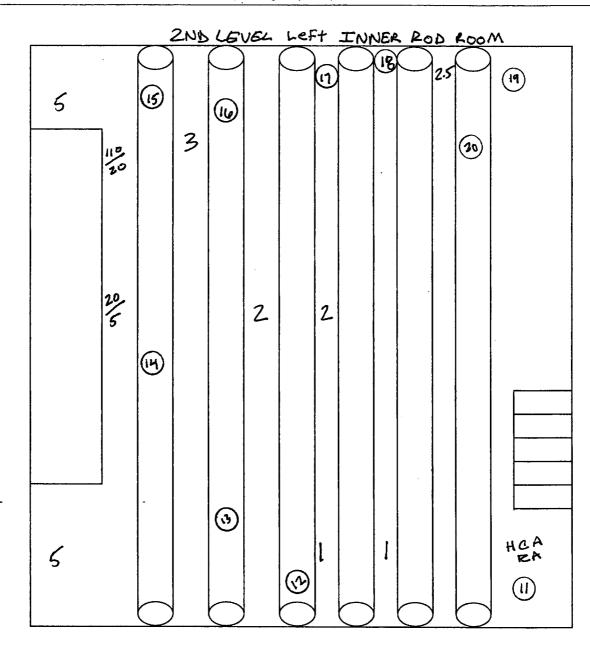
Page: ろ of & **ERC RADIOLOGICAL SURVEY RECORD (continuation)** Survey # RSR- 100355- 06-0086 **Additional Information** (Drawing, Map, Etc.) 1st Level Left INNER ROD FOOM 5 5 4 **₽** (2) (9) (1) (§ 5 STAIL WAY

Page: Y of 8

Survey # RSR- /00755-06-6086

Additional Information

(Drawing, Map, Etc.)



Page: <u>5</u> of <u>8</u> Survey # RSR- 1901s5-06-0086

Additional Information (Drawing, Map, Etc.)

3RD Level LEFT INNER ROD ROOM 3 (24) Z 1.5 3 (1) (16) 2 2 pipe (1³) HCA AST (2)

Smear Counting Results

Page: 6 of 8

Survey # RSR- 100ISS-06- 0086

	J	liteai	Cour	itilig nesults		100100 00 00 00			
i	nter Location:			Background (c	pm)	Со	unter Eff.		
l	_4-0019 _C-0042	α		0.2			.370		
	12/15/2006 βγ			. 60		.200			
	Sample			C	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm ²)		
1			α	1	3	2.8	7.6		
•	SEE COLATION ON MA	P	βγ	(1)	647	587	2935		
2			α	1	6	5.8	15.7		
2	1		βγ		525	465	2325		
3			α	\\	3	2.8	7.6		
			βγ		651	591	2955		
4			α		0	٥	0		
			βγ		323	263	1315		
5			α		0	0	O		
			βγ		1161	1101	5505		
6			α	<u> </u>	2	1.8	4.9		
	4		βγ	¥	764	704	3520		
7	N/2		α				> NA		
	114.		βγ				, C/A		
8	i i		α	/1)	2	1.8	4.9		
	SEE LOCATION ON MA	rP_	βγ		1794	1734	8676		
9	. 1		α	<i> </i>	0	6	6		
			βγ		572	512	2560		
10			α	(1	6.8	2.2		
		0.44	βγ		286 3	226	1130		
11			α		 	2.8	7.6		
ļ			βγ		412	352	1760		
12			α		4	3.8	10.3		
			βγ		1631	1571	7855		
13			α	<u> </u>	ő	7.8	21.1		
			βγ		2931	2871	14355		
14			α		5	4.8	13.0		
	A		βγ	1 \$	179	119	595		

Smear 47 counts w/ portable instruments and disposed of

Smear Counting Results

Page: 7 of 8

Survey # RSR-_

100ISS-06-0076

	nter Location:			Background (c	pm)	Сог	ınter Eff.
	_4-0019 _C.0040	α		0.2			.370
	-C-0042 5/2006	βγ		60			.200
	Sample			C	ounting Results		Final Analysis
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
15			α		0	0	0
13	SEE COCATIONS ON M	MP	βγ	(1)	176	116	580
16			α	/	2	1.8	4.9
10			βγ		396	336	1680
17			α		0	0	O
''			βγ		<i>35</i> 3	293	1465
18			α		4	3.8	10.3
.0			βγ		980	920	4600
19			α		2	1.8	4.9
			βγ		2986	2926	14630
20			α		1	0.8	2.2
20			βγ		408	346 348	1740
21			α		<u></u>	0.8	2.2
			βγ		224	164	820
22			α		0	0	<u>0</u>
			βγ		215	165	825
23			α	\\	2	1, 8	4.9
			βγ		166	106	530
24			α	<u> </u>	0	0	0
			βγ		223	163	815
25			α	<u> </u>	0		0
			βγ	_/	74	14	70
26			α			0.8	2.2
			βγ	 \ 	184	124	620
27			α	 	18	14.8	40.0
			βγ		4772	4712	23560
28			α	\/	2	L8	4.9
	A		βγ	V	222	162	810

Smear Counting Results

Page: 8 of 8

Survey # RSR-____1

100ISS-06-0686

	nter Location:			Background (c	pm)	Co	unter Eff.
	L4-0019 LC-0042	α		0.2			.370
	12/15/2006 βγ Sample			60			.200
			·	Co	ounting Results		Final Analysis
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
29			α	<i>(</i> 1)	0	0	6
•	SEE COLATIONON	MA	βγ	(1/	170	110	550
30		İ	α		0	<u>O</u>	0
	4		βγ		105	55	275
3	Counter CA/RBA Sumpos	+	α		/	0.8	2.2
'	CHIKOH SOUGHS		βγ	Ø	59	O	0
			α				
			βγ			-	
			α				
			βγ				
			α			<i>[</i> -	<u> </u>
			βγ				
		i	α				
			βγ				
			α			<u>/</u>	
			βγ		A		
			α				
			βγ				
			α				
			βγ				
			α				
			βγ				
			α				
		\angle	βγ				
			α				
			βγ				
			α				
			βγ				

RADIOLOGICAL	SURVEY RECORD Page / of 3								
Type of Survey (check one only)	Survey #								
*Release Routine W/A Work Pro	ogress Shipment RSR - 100ISS · 06 · 010 9								
RWP # / Rev. # Date, 1001SS-06-001 / 4 \$931/06	Time Location Code								
Description									
Left outer Rod Roo.	η								
Desting Des									
All radiation readings are γ dose rates in units of mR/hr unless other	11.07.00.01								
CA Area HCA Area RBA Buffer Area ARA Radioactivity Are	Radioactive Radiation High Radiation Very High RMA Materials Area RA Area HRA Area VHRA Radiation Area								
Technical Boundary Technical H Direct M Large Area Wipe Smear H Direct Wipe Smear H Direct Wipe Smear H Direct Wipe H Direct Wi	Δ Micro Rem N Neutrons (mRem/hr) AS] Air Sample SCA Contamination RMSA Material Storage Area								
Instru	ments								
Model Serial # Source CF Cal Due Date	Model Serial # Source ✓ CF Cal Due Date								
43.10 0042 MW B.5 10110100	43.93 0104 mw 43/00 2/10/06								
RO20 1506 mw 14 7/21/07	WA -								
m) williams/m) williams 8/3/106	RCT Supervisor Name/Signature/Date: RON CUEVAS //// 4-06								
	11/100								

Page 2 of 3

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

	Description of	,(Removable (dpm/100 cm ²)					Total (dpm/100 cm ²)			
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F		
	See Attack	J E d				NA -					
							<u> </u>				
		. 1-	AKT								
		1	111						1		

Corrected Dose Rate Calculations

	Show all work.	_		
	Contact	Readings	30 cm Re	eadings
Location	β (mrad/hr) (wo-wc) x CF = DR	γ(mR/hr) wcxcf=dr	β (mrad/hr) (wo-wc) x cF = DR	γ(mR/hr) wc x cf = bR
	Δ			
				.•
	A T			
		1 1 1 Hors		

Page: 3 of 3

Smear Counting Results

Survey # RSR- 100ISS-06-0/09

		incai	Cour	ning Results		00100-00-07-07			
	nter Location:			Background (c	pm)	Cou	ınter Eff.		
	L4-0019 LC-0042	α		0.2			.370		
i	5/2006	βγ	60				.200		
	Sample			C	ounting Results		Final Analysis		
No	Description of Smear Location		Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)		
1			α	$\left\langle \cdot \right\rangle$	1,	1	3		
	Sample Lines	3	βγ		96	36	180		
2	Sample Lines top of door Aloop	0	α βγ		9/	3/	3 155		
	100000000	<u>د</u>	α		0	6	0		
3	Floor		βγ		122	62	310 3		
4			α		1	1	3		
	Bottom of do	OR	βγ		180	120	600		
5	WAI		α βγ		1	1	140 3		
	WHI		α		96	36	8		
6	Daga -a		βγ		<i>3</i>		,		
	DOOR JAM		α		8	17	85		
7	unda door		βγ				0		
	Ullace deck		α		58 4	<i>b</i>	<u> </u>		
8	Door sill		βγ		106	46	230		
9			α		0	6	0		
J	7100R		βγ		7/	17	55		
10	9/110		α	$\left(\begin{array}{c} \cdot \\ \cdot \end{array} \right)$	G CG	<i>e</i>	0		
	I look		βγ	(1)	359	29	145		
11		_	βγ						
12			βγ	10	A.				
13			α	/\)/	7				
14			α						

					·							
	R	ADIOLO	GICA	L SU	JRVE	Y REC	ORD			Page _.	1 '	of <u>3</u>
1	(If release, no other			-	I-million	telease		rvey#		5-08-0	315	
RWP#/Rev.#	D1, W2, W4, W15		☑ Work P ate	rogre	ss 📋 S Tim	hipment ne	·	cation			-	
100ISS-08-003/	01	1	0-08-200	8	151	15 	10	0N				
Description 105N Room 170	Left Outer Rod Roo	om										
References: (e.g.,	SRTA, ASER, LASER, RSP,											
TA-07-SR-07/5	D.	oom 170 Lef	t Outer R	od Ro	om Sur	(ev with	Routine		· · · · · ·			
099999)	3 3 10 were er rod room ins 2 & 13 were er rod room ins	main floo	r is de	Wall penetr foot level. (-) x C	A 1	erre printer de la composition della composition	Routine survive performed neompassin rout 1 Daily SOP Sur 2 & W4 RBA and CA Contamina	ind removale to the total control of the total cont	e wall perior of the state of t
CA Contamination HCA Co	High ontamination RBA Radi Area	ological Buffer Area	Airbome A Radioactivity Area	[AS] '	Air Sample Location RM	IA Radioacti Materials A		Radiation Area	HRA	High Radiation Area	VHRA	Very High Radiation Area
Technical # Direct M	Large Area T Transferable	General Area Dot Rates =Uncorrect Meter Reading (mR/hr)	rates in		ngs are y dos mR/hr unless ndicated		Neutrons (mRem/tx)	Δ	Micro Rem (µ:R/hr)	SCA Conta	Soil imination Area	Radiological Boundary xx
Instruments												
Model	ID#		Cal Du Date		M	odel		ID i	#		Cal Dat	
L-2360/43-93	SCLL8-0076/DTI	LP-0177	02-20-2	009	ı	NA		NA	\		NΑ	
L-2360/43-93	SCLL8-0077/DTI	LP-0178	05-09-2	009		NA		NA	\		NA	١
NA	NA	<u>l</u>	NA			NA		NA			NA	\
RCT Name/Sign D.L. Poteet/ G.L. Eppling/	10-08-200/حسم					upervisoi گمسک		_		nte: 10 - 13 -	08	

Page: 2 of 3

Survey # RSR - 100ISS-08-0615

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo (dpm/10	vable 10 cm²)		Total (dpm/100 cm ²)				
NO.	Item or Location	α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β-γ C-F	
(49)	All Smear Survey Locations	< 20	7	< 1,000	20	NA	NA	NA	NA	
M, #	All LAW's and Direct Surveys	NA	NA	< 1,000	20	< 500	7	< 5,000	20	
		and a supplication of the								
							ļ			
			N							
				А						

Corrected Dose Rate Calculations

	Contact	Readings	30 cm F	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		·		
	N			
		A		

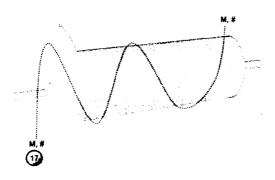
Page: 3 of 3

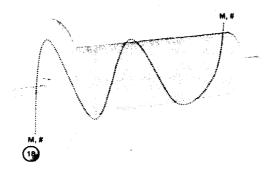
Survey # RSR-100ISS-08-0615

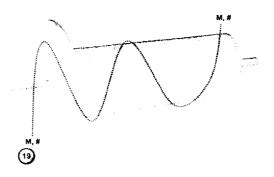
Additional Information (Drawing, Map, Etc.)

Continuation of Room 170 Left Outer Rod Room

Survey of Plugs Removed from ORR Walls, (X3)







RADIOLOGICAL SURVEY RECORD of 2 Page 1 Type of Survey Survey # RSR -100ISS-10-0326 ☐ Routine NA RWP # / Rev. # Date Time Location NA 04-13-2010 1045 100N Description: Survey for Closure of Rooms 7,8,& 9, "R" Elevator Shaft References: (e.g., SRTA, ASER, LASER, RSP, Work Package) TA-07-SR-07/REV. 7 Survey of -16 Foot Level of 105N, Rooms 7,8 & 9, and Stairwell 6 to the "R" **Elevator Shaft** A survey was performed as indicated below of the rooms as described below just prior to sealing the access to the room from the exterior. All rooms and areas are posted RMA. No removable contamination was found. **RAD Drain Line (1)** м • Battery Elevator Room 9 Shaft Sulfurio Acid Straine 1 Oll Res. **Flactrical** Equipment Room 8 Ti-Map is not to scale. Equipment Room 7 CA Contamination Airborne High Radiation Very High Radiation Radiological Buffe Air Sample Location Radioactive Radiatio RBA ARA Radioactiv [AS] RA HRA Area Area Area Area Area Area General Area Dose All radiation readings are y dose Contact Radiological O Technical Smear Rates =Uncorrected Micro Ren Boundary T Transferable rates in units of mR/hr unless N SCA Contamina 30 cm Δ Meter Reading Area (mR/hr) otherwise indicated x----x----x Instruments Cal Due Cal Due Model ID# Model ID# Date Date L-2224-3/DP-6 SCLLB-0178/DTNE2-0138 07-06-10 NA NA NA L-2224-3/DP-6 SCLLB-0164/DTNE2-0012 07-06-10 NA NA NA NA NA NA NA NA NA RCT Name/Signature/Date: RCT Supervisor Name/Signature/Date: F. MORAN G.L. Eppling ~/04-13-2010 5-27-10

RCT signature indicates portable instruments checked IAW RC-300-2.1

Page: 2 of 2

Survey # RSR - 100ISS-10-0326

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		vable 00 cm²)		Total (dpm/100 cm²)				
140.	Item or Location	α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
0	All Smears	< 20	7	< 1,000	10	NA	NA	. NA	NA
М	All Large Area Wipes	NA	NA	< 1,000	10	NA	NA	NA	NA
						_			
			N						
				Α					

¹ Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		Α		
	, v :			

	RA	DIOLO	GICAL S	URV	/EY RE	COF	RD	Pag	ıe /	of Z
Type of Survey	12, W4, W6, W13, W14,	wæ 🗆	Work Progr				Survey #			
RWP # / Rev. #)ate 04-13-2016		Time /600	<u> </u>	Location	100N		
Description 10	SN - CORRIDOR	#3 CLEA	N UP					-		
References: (e.g., s	RTA, ASER, LASER, RSP, WO SR-07 REV. 7			<u>.</u>						
			TO FULL FILL		QUIREMEN	156	FOR EAS	64-10-D	ETECT	
20.5 0 20.5 0 20.5 0 4 # # 0 # # 0 # # 0 # # CA BOUNDAN	20.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TO CA F NEBRIS	D.6 0.8 CA/RA # SMEARS # TO BE REMOV	0	*	AFT COR	STAIRS FR BEERIS RIBOR 3, R WAS REDUC	ORRIDOR 2 WAS REMOOM S &	OVED FRE	OM HE OPC.
CA Contamination HCA Cor	ntamination RBA Raciolo Area	gical Buffer Area General Area Di	A Radioactivity (AS Area		on Materia	is Area	RA Radiation		ation VHRA ea	Radiation Area
O Technical # Direct M		Rates =Uncorrec Meter Reading (mR/hr)	ded rates in units	of mR/h	unless 30 cm	·ININ	eutrons Rem/hr) Δ	Micro Rem (µR/hr) SCA	Soil Contamination Area	Radiological Boundary xx
Instruments										
Model	ID#		Cal Due Date		Model		DI	#	Cal l Da	
2224-3/596BD	0158 / 010	2	09-08-2010	4_	HII - 000		HIDEX 4	125-034	02-05	- 2011
2224-3/5P6BD	0155/0013		04-03-2011	2	929/43-10-	<u>, </u>	0019/	0042	10-31-	2010
RO-20	ICEB4-1282		02-26-2011	$oldsymbol{\perp}$	N/A -					
RCT Name/Signa J.3. Horcomes	Juneau .	- /	13/2010	<i>F</i> .	T Supervis	5	Juan _		4.19.1	
WCH-TM-R006a (06/3	3072(009)			RC	T signature in	ndicate	s portable ins	struments che	ecked IAW F	IC-300-2.

Page: 2 of 2

Survey # RSR - 100155-10-0327

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo (dpm/10			Total (dpm/100 cm²)					
	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β–γ	β-γ C-F		
0	TOP OF SAIRLD DOORS	35	7	16K	10	N/A	NA	NA	N/A		
②	SHIELD DOOKS	42	7	8.5K	10			(5		
3	LEDGE ABOVE SHELD DOORS	28	7	3K	10	7		7			
9	FLOOR AT SHIELD DOORS	28	7	6.7K	10		\	7	. (
Œ	TOPOF SHIELD DOORS	NA	N/A	=1K	3.8	Ţ	7	7	1		
#	ALL DIRECT READINGS	N/A -			→	< 500	7	<5k	10		
				N.L.							
		·		N							
				1							

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm l	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		IV		
		A		
		7		

	R	ADIOLO	GICAL	_ SUI	RVEY	RECC	RD	Pa	ge <u>1</u>	of <u>2</u>
Type of Survey ☑ Routine	D1,W2,W4,W15	٥	☑ Work P	rogress			Survey RSR -	# 100ISS-	10-069	97
RWP # / Rev. # 100ISS-10-0			Date 07/27/2		Time	600	Location 100N/10			
<u> </u>	d closure of rooms 1 Brta, Aser, Laser, RSP, V		and 106			<u> </u>				
Lead blank Lead blank A A AIR100	HCA Room 104 Room 105 Room 106 Room 107 Room 106 Room 106 Room 106 Room 106 Room 106 Room 106 Room 107 Room 106									
CA Contamination HCA Con	High ntamination RBA Radio Area	Avea	Airborne A Radioactivity Area		Sample RMA	maichas Aic	RA Radiatio	"HRA Rac	tigh diation VI- vrea	Very High IRA Radiation Area
Technical # Direct M	Large Area Wipe T Transferable	General Area Do Rates =Uncorred Meter Reading (mR/hr)	ded rates in		s are γ dose R/hr unless icated	Contact 30 cm N	Neutrons (mRem/hr) Δ	Micro Rem (µR/hr) SCA	Soll Contamina Area	Radiological Boundary xxx
		T	Ins	trume					l c	al Due
Model ID# Date Model ID# Date										
2360 / 43-93	SCLLB-0075 / DTI	LLP-0176	02/20/20 N	011						
						4				
RCT Name/Signa J. A. Powell WCH-TM-R006a (06/	(Xcol		07/27/201	0	RCT Su F. Ma	pervisor I	Name/Signa	Y a	8.9.1	

Page: 2 of 2
Survey # RSR - 100ISS-10-0697

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location		Remo dpm/10	vable 00 cm²)		Total (dpm/100 cm ²)				
140.		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β–γ C-F	
0	All smears	<20	7	<1,000	10	NA	NA	NA	NA	
								:	7	
	~	Ü								
				N						
				A						
	,			*						
				·						
					-	Y .	· ·	:	:	

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

2	Contact F	Readings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
				*
and the Artificial Control of the Co	N			
			·	
		Α		
	:			
1 38 pt \$				

F	ADIOLOGICAL SU	IRVEY RECO	Page 1 of 2
Type of Survey ☐ Routine	Work Progres ■ Work	ss	Survey # RSR –100ISS-10- 07 2-5
RWP # / Rev. # N/A	Date 8/4/10	Time 1025	Location 100N
Description Survey of Rooms in 109N References: (e.g., SRTA, ASER, LASER, RSP,	Work Package)		
TA-07-SR-07-7	D		

Perform Work Progress Survey in Rooms 208, 307, and Stairwell 7 inside the 109N Building. Performed tech smears and directs. No Contamination was found.

Was unable to survey above 8' in any of the rooms.

These areas were entered for workers to clean up area prior to door being sealed shut for cocooning.

Area is posted RMA

CA Contamination Area		High HCA Contamination Area		RBA Radiological Buffer Area		Airborne ARA Radioactivity Area	[AS] A	ir Sample Location	MA	Radioa Materials	Radioactive Materials Area		Radiation Area	HRA	Hiç Radia Are	ation VHRA	Very High Radiation Area	
0	Technical Smear	#	Direct	M Large Area Wipe	T Transferat	General Are Rates =Unc Meter Re (mR/h	orrected rates i	ition reading n units of m therwise inc	nR/hr unles	se ss	Contact 30 cm		Neutrons mRem/hr)	Δ	Micro Rem (μR/hr)	SCA	Soil Contamination Area	Radiological Boundary xx
							Ins	strume	ents									
Model					ID#		Cal D Date		Model				ID#				Cal Due Date	
2360/43-			93	0075/0176			2/20/	11	NA		NA				NA			
N/A				N/A			N/A	N/A !		NA		NA				NA		
	N/A				N/A			N/A		NA		NA				NA		
	CT Na ebbie I			gnature/D	ate: ····································	v	8/4/1		RCT S	up /2	erviso	or N		Signa	ture/Da	ate:	g.5	. 14

RCT signature indicates portable instruments checked IAW RC-300-2.1

WCH-TM-R006a (06/30/2009)

Page: 2 of 2

Survey # RSR -100ISS-10-0 7→ 5

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo (dpm/10	vable 00 cm²)		Total (dpm/100 cm ²)				
140.	Item or Location	α	α C-F	β-γ	β–γ C-F	α	α C-F	βγ	βγ C-F	
O,#	All Smears and Directs	< 20	7	< 1,000	10	<500	7	<5000	10	
	· · · · · · · · · · · · · · · · · · ·			: 						
			/							
				c						
		-								

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm R	leadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		Α		

	R	ADIOL	OGICA	L SU	IRVE	Y REC	ORD	Pa	ge <u>/</u> '	of <u>2</u>
Type of Survey							Surve	y #	- 00-	7/2
Dr Routine ⊅1, W	2, 4, 46, 415		☐ Work F	rogres	ss		RSR	_ 100155-	10-07/	
RWP # / Rev. #	-002/00		Date <i>10-14-</i> 2	2010	Tin	ne <i>1600</i>	Locat	ion /00시		
5:	5N - Room ?					IOVAL	1			
<u> </u>	GRTA, ASER, LASER, RSP,								<u></u>	
	-07 REV. 07									
	lir-100155-10-	-0852~		V	∠0. ⊊	Room	#0 8 10 8 10 8	1.0	TRENCH (1) - 25 8 TO 10 10 10 10 10 10 10 10 10 10 10 10 10	
CORRIDOR #4 CONTROL PAUEL CONTROL PAUEL CO.5										T DUCT
CA Contamination HCA Con	High ntamination RBA Radi Area	ological Buffer Area	Airborne RA Radioactivity Area	[AS]	Air Sample Location	MA Radioacti Materials A	rea RA Radi	HRA Radi	igh iation VHRA rea	Very High Radiation Area
O Technical # Direct M	Large Area Wipe T Transferabl	General Area D Rates =Uncorre Meter Readii (mR/hr)	rates in		ngs are γ do mR/hr unles ndicated		Neutrons (mRem/hr)	Δ Micro Rem (μR/hr) SCA	Soil Contamination Area	Radiological Boundary xx
	**************************************		Ins	trum	ents					-
Model	ID#		Cal Di Date		N	lodel		ID#	Cal Dat	
2360/43-93	0078/0	179	08-10-	2011	Ν	/A -				>
2360/43-93	0075/0	176	02-20-	201)	N/A				-	
RU-20	1282	2	02-26-	2011	N.	/A -				
b. Poreer To	T Name/Signature/Date: 10-14-2010 B. HOLLOWINE 10-14-2010 POTEET 0 PUBLISHED 10-14-10 H-TM-R006a (06/30/2009)						1-7-8	nature/Date:	//////////////////////////////////////	C-300-2.1

Page: 2 of 2

Survey # RSR - 100 ISS - 10 - 0970

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo dpm/10			Total (dpm/100 cm ²)					
110.	Item or Location	α	α C-F	βγ	β-γ C-F	α	α C-F	β–γ	β–γ C-F		
(12)	INSIDE VENT DUCT	< 20	7	IK	10	N/A-					
(4)	FLOOR IN FRONT OF SHIELD BOOKS	420	7	IK	10	N/A-			-		
(5)	FLOOR IN FRONT OF SHIELD DOORS	< 20	7	4 K	10	N/A-					
0	ALL OTHER TECH SMEARS	420	7	< K	10	N/A -	-		-		
				N							
			-	A							

Unless stated otherwise in the "References" section, exempted β - γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are \leq 10 times the β - γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm F	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
7 HIGH ON VERTICLE PIPE	(5-5) × 8 = <0.5	5×5 = 25	(1.0 - 1.0) X 5 = < 0.5	1.0 x1= 1.0
YERTICLE PIPE	(8-8)x6=20.5	8 × 5 = 40	(5D-5.0) x Z=<0.5	3.0x1= 3.0
		N		
		A		

	RADIOL	OGICAL SU	JRVEY RECO		ge <u>1</u> of <u>2</u>				
Type of Survey	D.4	Maria -		Survey # RSR – 100ISS-	10-0086				
RWP # / Rev. #		Work Progre	Time	Location	10-0300				
Description	0-002 Rev.00	10/19/2010	1600	100N/105N					
8 .	outh end of FPT access tunne	l,							
0	SRTA, ASER, LASER, RSP, Work Package)								
TA-07-SR-07 Re	v. 7								
Uses rate taken with model 78 extender for information only on hot spot 7ft. high overhead on 12° pipe. Lapel used in Lieu of air sample # AIR 100ISS-10-0862 Butterfly valve in closed position chain fink fence opening posted HRAHCA T Support pedestal T CA/RA T Support pedestal T ARA Radicocive Buffer ARA Radicocive Buffer ARA Radicocive RA Radicocive RA Radicocive WHA Radicion THE RADICIO THE THE THE THE THE THE THE THE THE THE									
CA Contamination HCA Cor	ntamination RBA Acca Alea Alea	RA Radioactivity [AS] Area	Location Materials Area	RA Area HRA Rad	iation VHRA Radiation rea Area				
O Technical # Direct M	Large Area Wipe T Transferable General Area I Rates = Uncorre Meter Readi (mR/hr)	cted rates in units of	mR/hrunless 30 cm N	Neutrons Δ Micro Rem (mRem/hr) Δ (μR/hr) SCA	Soil Radiological Contamination Area Radiological Boundary				
		Instrum	ents						
Model	ID#	Cal Due Date	Model	ID#	Cal Due Date				
RO-20	ICEB4-1282	02/26/2011	Model 78	XELL2-0012	01/12/2011				
2360 / 43-93	SCLL8-0082 / DTLLP-0183	06/24/2011	NA .	NA	NA NA				
NA	NA	NA	NA NA NA						
RCT Name/Signa J.A. Powell WCH-TM-R006a 0067	ature/Date:	10/19/2011	J. King	Name/Signature/Date:	120/10				
MOLLINGTONS POR	Juranai		TOT SIGNATURE INDICAL	restruction il burning cui	50.05U INYY NO-300-2. I				

Page: 2 of 2
Survey # RSR - 100ISS-10-0986

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remov dpm/10			Total (dpm/100 cm ²)					
NO.	Item or Location	α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F		
1-2	Concrete floor	21	7	7K	10				1		
т	Dirt on ground	<20		<1K					7		
3	36" piping	280	ety v	23K		Silving on the second	*	e.			
4	I/S diversion valve	<20		5K							
5	Concrete Floor	<20	3	5K			N				
6	Concrete Floor	42		3K	et sa		ж.				
7	36" piping	<20		2.4K							
8	Valve	<20		9.5K			7	Α			
9-10	Concrete Floor	<20		2.7K			/				
11	36" piping	<20		17K .							
12-13	Metal ventilation grating	224		640K							
14	Concrete Floor	<20	 	2K [*]	¥						
15-16	SOP	<20	7	<1K	10	/					

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm F	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
See page 1 for General area dose rates				
		N		
		A		

	* **		R	ADIOL	OG	ICA	L SU	JRV	EY	REC	CO	RD			Page		of <u>4</u>
Type of Survey					/			1.5			·		rvey #		·		
☑ Routine DI		W6, WI	<u>5</u>				rogre								55-16	>-103	2
RWP # / Rev. i		,			Date				Γime			Lo	cation	100) A/		
100155-10	-002/	100			10-	2/-	2010	2	16	00	······································	<u> </u>			· i ·		
Description 10:	5N - R	com 3	5 P	PE TUN	WEL	DUC	T \$ 5	CREE	NR	EMO	V142	<u>_</u>					
References: (e.				Vork Package)				···					,				
TA-07-	SR-07	RE	v. 7	:												_ +	
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- SEE		4 04.	0-27-1	6		:											
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2. ⁴ 7	¢	ş.	4							*							
		*															
CA Contamination HCA	High Contamination Area	RBA	Radiol	logical Buffer Area	IRA Rad	rborne loactivity Area	[AS]	Air Sample Location	RMA	Radioad Materials	ctive Area	RA I	Radiation Area	HRA	High Radiation Area	VHRA	Very High Radiation Area
Technical # Direct	l ama Aron	T Trans	ferable	MISTEL LICES	rected i	rates in	tion readi units of herwise in	mR/hr ur		Contact 30 cm		ieutrons nRem/hr)	Δ	Micro Rem (µR/hr)		Soil ntamination Area	Radiological Boundary xx
	· .			(mR/hr)	L		trum			1		1				-	
					(Cal D									T	Cal [Due
Model ID#		Date Model			ID#				Date								
2360/43-93 0075/0176		02-20-2011 N/A															
2274-2/43-9		0099				09-		Ì	<u>: /</u>	<u> </u>	士	***************************************					

12-11-2010

10-27-2010

10-27-2010

WCH-TM-R006a (06/30/2009)

RCT Name/Signature/Date:

1201

RO-20

P.R. VESTAL

RCT signatura indicates portable instruments checked IAW RC-300-2.1

RCT Supervisor Name/Signature/Date:

J. Kince

Page: 2 of 43

Survey # RSR - 100155-10-1032

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo dpm/10	vable 00 cm²)			•	otal 100 cm²)	
140.	Item or Location	α	α C-F	β-γ	βγ C-F	α	α C-F	β-γ	β–γ C-F
2	BOLTS/FLANGE AREA OF VENT DUCT	4 ZO	7	1.9K	10	N/A	N/A	N/A	N/A
4	SCREEN ON VENT DUCT	220	フ	3.5K	10				
(5)	SCREEN ON WENT DUCT	< 20	7	25K	10				
(3)	ON VENT DUCT AFTER SCREEN WAS REMOVED	<20	7	IDK	10				
7	ON VENT DUCT AFTER SCREEN WAS REMOVED	420	7	37K	10				
8	FLOOR	28	7	2.1k	10				
9	FLOOR	420	7	15K	10				
(9)	FLOOR	< Z0	7	1.5K	10				
(1)	FLOOR	e 20	7	3K	10				
12	FLOOR	220	7	1.4K	10				
13	FLOOR UNDER DUCT	100	7	50K	10				
(4)	FLOOR	77	7	14K	10				
(3)	FLOOR	420	7	1.6K	10	ľ	v	+	

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm F	leadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
·		1		
				:
		N		
A.		A	<u>.</u>	
		·	4	

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination

Page: 34 of 4

Survey # RSR 100555-10-1032

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Removable Total												
No.	Description of Item or Location		Remo (dpm/10	vable 00 cm²)			To (dpm/10	tal 00 cm²)					
		α	α C-F	β-γ	β–γ C-F	α	α α C-F		β–γ C-F				
16	Around threaded Stubs After Duct Removal	420	7	18K	10	N/A	NA	NA	NA				
17	AROUND THREADED STUDS AFTER DUCT REMOVAL	420	7	12K	10								
18	AROUND THREADED STUDS AFTER DUCT REMOUAL	< 20	7	7K	10								
(19)	AROUND THREADED STUDS AFTER DUCT REMOVAL	420	7	6K	10								
(2)	ON WALL UNDER DUCT AFTER REMOVAL	< 20	7	3K	10								
24)	ON CONCRETE SLAB	< 20	7	3.5K	10								
\bigcirc	ALL OTHER TECH SMEARS	4 20	7	2114	10	<u> </u>	*	<u> </u>					
							1						
				N									
				A									
			1					***************************************					
						No. 2017							
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											

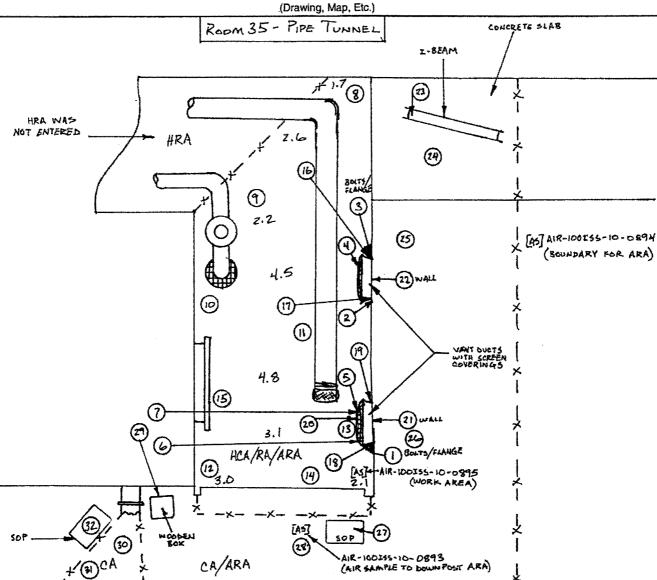
¹Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

RADIOLOGICAL SURVEY RECORD (continuation)

Page: & of 4/8

Survey # RSR /00 TF5-10-1032

Additional Information



- SMEARS 16-31 WERE TAKEN AFTER THE YENT DUCTS & SCREENS WERE REMOVED.
- THE CA & ARA WERE DOWN POSTED.
- -THE PIPE TUNNEL (ROOM \$5) WAS DOWN POSTED FROM AN HCA TO A CA. THE PIPE TUNNEL IS CURRENTLY POSTED CA/RA. THE BACK OF THE TUNNEL AT THE CORNER IS POSTED HRA.
- BACKGROUND IN THE AZEA WAS TOO HIGH TO PERFORM DIRECT READINGS.
- THE OBJECTIVE OF THIS WORK WAS TO REMOVE TWO PIECES OF VENT DUCT FROM THE WALL THAT HAD SCREEN COVERINGS ON THE OPENING. BOTH DUCTS & SCREENS WERE REMOVED AND PLACED WITO AN ERDF CAN.

	R/	ADIOL	OGICA	L SU	JRVE	Y REC	ORD)		Page	1 '	of <u>2</u>
Type of Survey ☐ Routine			₩ wask F)				urvey #		SS-10-	1253	
RWP # / Rev. # 100ISS-10-00	02 rev.00		Work F Date 12/28/		Tin	ne 1400	L	ocation 00N/10	<u> </u>	70 10	1200	
Description							I	******	<u> </u>	******		
Survey of corridor 2 References: (e.g., SRT			07	······································			······································				······································	
TA-07-SR-07 rev.7	eadings taken for i											
RA/CA (Be Area) RA/CA (Be Area) RA/CA (Be Area) RA/CA (Be Area) RA/CA (Be Area)	*^	N-Basin	Interme	RMA/S or 22) Cor ch buildir e pour ba	ncrete floor			4				
CA Contamination HCA Contam Area HCA Contam	nination RBA Hauloto	gical Buffer Area	Airborne {A Radioactivity Area	[AS]	Air Sample Location RI	//A Radioact Materials /		Radiation Area	HRA	High Radiation Area	VHRA	Very High Radiation Area
		General Area D Rates =Uncorre Meter Readir (mR/hr)	cted rates in		ngs are γ do mR/hr unles ndicated		N Neutrons (mRenvhr	Δ	Micro Rem (µR/hr)	SCA Cont	Soil amination Area	Radiological Boundary xx
			Ins	trum	ents							
Model	ID#		Cal Du Date		M	odel		ID	#		Cal D Dat	
2360	SCLL8-008	0	07/06/20	011	4	3-93		DTLLP	-0181		07/06/2	2011
Ludlum 12	CMLL1-004	8	04/15/20	011		P-210		OTEB5	·····		02/06/2	
NA	NA		NA			NA		N/		Д,	NA	\
RCT Name/Signatu J.A. Powell	re/Date: Volument		12/28/20	10	RCT S	uperviso	r Name	/Signa	ture/De		- 25-	10

WCH-TM-R006a (06/30/2009)

RCT signature indicates portable instruments checked IAW RC-300-2.1

Page: 2 of 2
Survey # RSR - 100ISS-10-1253

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remov (dpm/10		Total (dpm/100 cm²)				
	Item or Location	α	α C-F	βγ	β–γ C-F	α	α C-F	β-γ	β-γ C-F
1-2	Concrete floor (corridor 22)	<20	7	<1K	10	NA	NA	<5K	10
3		<20	7	<1K	10	NA	NA	<5K	10
4		<20	7	<1K	10	NA	NA	18K	10
5		<20	7	<1K	10	NA	NA	<5K	10
6		<20	7	<1K	10	NA	NA	<5 K	10
7		<20	7	<1K	10	NA	NA	55.2K	10
8		<20	7	<1K	10	NA	NA	925K	10
9		<20	7	<1K	10	NA	NA	20K	10
10		<20	7	<1K	10	NA	NA	<5K	10
11	Electrical conduit	<20	7	<1K	10	NA	NA	<5K	10
			N						
				А					

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm l	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
				,
		Α		

	RADIOL	OGICAL SU	IRVEY RECO		ge <u>/</u> of <u>Z</u>						
Type of Survey ☐ Routine		「Work Progres	38	Survey # RSR - /00 <u>7</u> 55-	11-0104						
RWP # / Rev. #	2/01	Date 04-06-20	Time	Location ル							
Description 105N	- FINAL SURVEY C	IN PRESSURIZ	ER ROOF								
References: (e.g., SRTA	n, ASER, LASER, RSP, Work Package)			÷,							
22 \$#											
CA Contamination HCA Contami Area Are	ination RBA Area	Area (AS)	Air Sample RMA Radioactive Location RMA Materials Area	RA Area HRA Radi	gh Very High ation VHRA Radiation ea Area						
	ge Area T Transferable General Area Rates =Unco Meter Rea (mR/hr	rected rates in units of	mR/hrunless 30 cm N	Neutrons Δ Micro Rem SCA (μR/hr)	Soil Radiological Boundary xx						
		Instrum	ents								
Model	ID#	Cal Due Date	Model	1D #	Cal Due Date						
2360/43-93	0081/0182	12-21-204	N/A-								
2224-3/43-93	0080/0090	08-10-2011	N/A-								
R020	1257	12-22-11	N/A-		((100)= ::						
RCT Name/Signatu J. B. Ho⊾comBE	re/Date:	104-06-2011	RCT Supervisor N	lame/Signature/Date:	04/08/2011						

Page: Z of Z

Survey # RSR - 100155-11-0104

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remo dpm/10	vable 00 cm²)		Total (dpm/100 cm²)					
	Item or Location	α	α C-F	β-γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F		
\bigcirc	ALL TECH SMEARS	< 20	7	21K	10	N/A-					
4	TOP OF CONCRETE PEDESTAL	N/A-				<500	7	16K	10		
2#	TOP OF CONCRETE PEDESTAL	N/A-			_	<500	7	14K	10		
³#	TOP OF CONCRETE PEDESTAL	N/A-				<500	7	16K	10		
#	ALL DTHER DIRECT READINGS	N/A -		·		4500	7	45K	1 O		
					ŝ,	1 44.					
				N							
				A							
	pless stated otherwise in the "Refere										

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm Readings				
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR			
				4			
		N		****			
		A					

Page 1 of 2

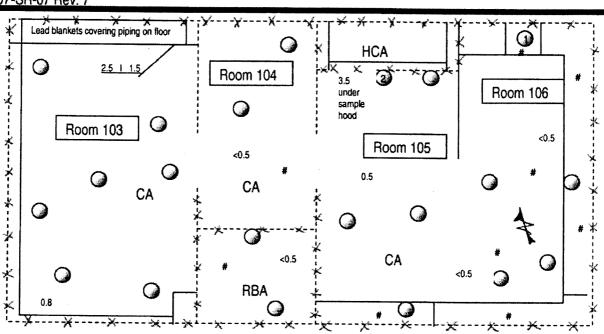
Type of Survey			Survev #
⊠ Routine D1,W2,W4,W15	⊠ Work Progress		RSR - 100ISS-11-0164
RWP # / Rev. # 100ISS-10-001 rev.01	Date 05/04/2011	Time 1300	Location 100N/109N

Description

Final cleanup and Walkdown of rooms 103,104,105 and 106

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

TA-07-SR-07 Rev. 7



Note: No entry was made in HCA sample hood. RBA was downposted @ completion of walkdown.

CA	Contamine Area	ition	HCA	High Contamination Area	RBA	Radio	logical Buller Area		Airborne idioactivity Area	[AS]	Air Sample Location	RMA	Radioa Material		RA	Radiation Area	HRA	Hig Radia Are	tion	VHRA	Very High Radiation Area
0	Technical Smear	#	Direct	M Large Area Wipe	T Tran	sferable	General Are Rates =Uno Meter Re: (mR/h	orrected ading	rates in	units c	dings are γ if mR/hr un indicated	dose less	Contact 30 cm		Neutrons nRem/tr)		Micro Rem (µR/hr)	SCA	Conta	Soil mination trea	Radiological Boundary xxx
									Ins	trur	nents										
	Мо	odel ID#				Cal Due Date M			Model				ID	#			Cal D Dat				
22	224-3	43	3-93	SCLL	B-0149	/ DTI	LP-019	3 0	8/20/2	011		RO-20 1257					09/29/2011		2011		
									N												
								_				Α									
RC	T Nar	ne/	/Sig	nature/D	ate:						RCT	Sup	ervis	or N	ame/	Signat	ute/Da	ate:			

05/04/2011

WCH-TM-R006a (06/30/2009)

Whele

J. A. Powell

RCT signature indicates portable instruments checked IAW RC-300-2.1

Michael T. Wright - RO

Page: 2 of 2
Survey # RSR - 100ISS-11-0164

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

No	Description of		Remov (dpm/10	able 0 cm²)		Total (dpm/100 cm ²)					
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β–γ C-F		
1,#	Inside sink room 106	98	7	30K	10	<500	7	100K	10		
2	Under sample hood room 105	63	7	25K	10	ŅA	NA	NA	NA		
0	All other smears	<20	7	<1K	10	NA	NA	NA	NA		
#	All other directs	NA	NA	NA	NA	<500	7	<5K	10		
				N		,					
				Α							
/											

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact I	Readings	30 cm Readings			
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR		
2" pipe covered with lead blankets Room 103	NA	2.5X1= 2.5	NA	1.5X1= 1.5		
See page 1 for general area dose rates						
		N				
		A				

		1		and the second s	and the second second second		and the second of	Name of the Owner, where the Owner, which is the Owner, where the Owner, which is the	or a Consession			
	,		RADIO	OLOGIC	AL SU	IRVEY F	RECO	RD				2
Type of Surv	ey ~	1-6		⊠ Wor	k Progres			Surve	ey #			_ 01
RWP # / Rev				Date	it i rogres	Time				DISS -	11-6	436
1001	((- //	5-007-	. R-A1	8/2	1/4	_ / //		Locat				
Description				10/0	0/11	1790	<u>/O</u>	1/0	SON		·.	
105N	40	FT Ro	af									,
References: (i てみ ロ テーシス・	e.g., SRTA, /	ASER, LASER, R	ISP, Work Pack	(age)					<u> </u>			
(ROTESIC	-07-	7		19 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	version exercise							
Room 606 FL		P21				Price AREA	<i>‡</i>		CANT SCAFF —_ 4D CANT	oʻzlevat ilever oldima 'Zlevat ilever ilever ioldima	10~	=
Contamination HCAC	High ontamination Area	RBA Rad	iological Buffer Area	Airborne ARA Radioactivity	[AS] Air San	ple RMA Radio	active RA	Radiation	UDA	High		Very High
Technical # Direct		T Transferable	Meter Head	rates in	ion readings ar units of mR/hr	e γ dose Contact	Neutror	Area	HRA Micro Rem	Radiation Area SCA Conta	VHRA Soil	Radiation Area Radiological
	 _		(mR/hr)		erwise indicate		(mRenvi	m)	(μR/hr)		rnination trea	Boundary xx
Model		ID#		Cal Du						-,	0-15	
	 	10#		Date		Model		ID #	#		Cal D Date	
224-3/43-93	Scul	(-0043) I	TUPWIZ	4/23/1	2			N i				
Bichon	LM	BC3-0	147	12/21/10						-		
N/A	······································						-	A		+		
CT Name/Signa				NIA								
			_	,	HC	「Superviso	r Name	/Signatu	re/Dat	e: 10 7	05-2	20 ((
Colver 2	1)1	e	8/20/	/ //		chael T.			١ / .	<i>[</i> .	Al	`4
I-TM-R006a (06/3	0/20091	· 2 · · · · · · · · · · · · · · · · · ·	(/	"	TATE	VIICE IO	111181	11/		whay	Fly	gh

RCT signature indicates portable instruments checked IAW RC 300-2.1

Page: <u>Z</u> of <u>Z</u>

Survey # RSR - 10005 -11 - 0436

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

		d values indicat	Remov		Total (dpm/100 cm²)					
ło.	Description of Item or Location	α	α C-F	β–γ	β–γ C-F	O.	α C-F	β-γ	β-γ C-F	
) #	SUPPORT HOLES (2)	270	7	<100	10	1500	7	12840	10	
	307.0.						-			
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	the state of the Beta				<u> </u>	<u> </u>		TO T- 00 Pd 5	107	

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact R	eadings	30 cm Re	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
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	A			
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RADIOL	LOGICAL S	URVEY F	RECORE)	Page 1	of <u>2</u>					
Type of Survey				Survey #							
Routine	Work Progre Work Progre	e <u>ss</u>			SS-11-0452	2					
RWP#/Rev.# 100155-10-002/01	Date 08-25-11	Time 0920	L	ocation 00N							
Description		A.	<u> </u>								
109N Roof & RA Survey References: (a.g. SRTA ASER LASER DSR Work Restace)											
References: (e.g., SRTA, ASER, LASER, RSP, Work Package TA-07-SR-07,R.7)										
	Perform roof top survey of the 109N area including RA on N.E. side of the enclosure, near the breach in the side paneling										
I malcaled on drawing. The PCA #0003 and #N	Jung DA on N.L 1-0039 were sun	:. side oi trie i veved, no ren	enciosure, i novable det	near the prea ected and the	ich in the side e direct readin	paneling					
list on page two (2).	V = -	, ~ ,		T	- uncorross	ا ا					
RA 2006					o#						
	·				FCA #0003						
X X RA		~ ~ 1	L			7					
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N O L											
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← O# → ←	O#	→		_ 0	#						
				/ 1	\						
				/							
./ ч -	7		4	/							
K	V		-		4						
V OFF FEA #C	1424			4							
Fax0											
Interior R	109N	1				-					
CA Contamination HCA Contamination RBA Radiological Buffer Al	Airborne ARA Radioactivity [AS]	Air Sample RMA Rate	adioactive terials Area	Radiation HRA	High Radiation VHRA	Very High Radiation					
General Area D	Dose All radiation reading			T	Area	Area					
Technical # Direct M Large Area Wipe T Transferable Meter Readile (mR/hr)	ecieu I rotoe in unite of a	mR/hr unless 300	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	Soil SCA Contamination Area	Radiological Boundary					
	Instrume				Alex	хх					
Model ID#	Cal Due	<u> </u>	$\overline{}$		Cal D	שוול					
Model ID#	Date	Model		ID #	Dat	te					
2224-3 SCLLB-0081	05-10-12	43-93		OTLLP-0069	05-7 -06-28	10-12 12-RU 15-11					
N/A —		N/A									
N/A		N/A				-/					
RCT Name/Signature/Date: Rene' L. Thomas Auril 8-25		RCT Superv	visor Name/	Signature/Da	ate: /- 24/-/	12					
nene L. Monas Auxa 6-23	5-11	Tonu MUN		21/1/1	M						
		16×4/04/VI	Willow Te	MULLIE	MU)	I					

Page: 2 of 2
Survey # RSR - 100ISS-11-0452

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Remova (dpm/100	able) cm²)			T (dpm/	otal (100 cm²)	
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β–γ	β–γ C-F
O#	All Smears & directs, unless listed below.	<20	7	<1000	10	<500	7	<5000	10
#	FCA #N-0003	<20	7	<1000	10	<500	7	6000	10
#	FCA #0039	<20	7	<1000	10	<500	7	80000	10
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			V						
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			A						
-1-									

Unless stated otherwise in the "References" section, exempted β - γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are \leq 10 times the β - γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact R	eadings	30 cm Re	eadings	
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DI	
	N				
	A				
	1				

		RADIOLO	GICAL S	SURV	EY REC	COR)		Dana d	- 6
Type of Survey ☐ Routine			☑ Work Prog	aress		S	Survey #	‡	Page 1	_ of _:
RWP # / Rev. # N/A	‡		ate 8/26/11		ime 0910	L	ocation 00N			
Description 105N W Elevate	or Arga									
References: (e.g	I., SRTA, ASER, LASER, RSF	P, Work Package)								
Performed Wo	ork Progress Survey med directs and tec	on the W Ele h smears alor	evator Area ang the walls	as worker and floor	rs are gett of this are	ing rea ea. Ple	dy to co ase see	ocoon the page 2	at part of 1 2 for results	05N F
The f	floor of the W Eleva	ıtor Area is ne	w concrete t	that was j	poured in	late wir	nter/ear	ly spring	g of 2011.	
	F	Please note th	at RCT was	unable to	o survey a	bove 8	' .			
		-	This Area is	posted R	IMA					
Contamination HCA Cor	High Badio	ological Buffer	Airborne			 				
Area HCA Cor	ntamination RBA Radio Area	Area ARA R	adioactivity [AS] Area	Air Sample Location PM	Malenais Are	ea RA	Radiation Area	HRA Ra	High diation VHRA Area	Very Radi: Ari
Technical # Direct M	Large Area T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation read rates in units of otherwise i	f mR/hr unless		Neutrons (mRem/hr)		cro Rem (µR/hr) SC/	Soil Contamination Area	Radiol Bourn
			Instrum	ents						<u> 1 </u>
Model	ID#		Cal Due Date	Me	odel		ID#		Cal [
2224-3/43-93	0077/0015	5	8/12/12	N	J/A	N/A			N/A	
N/A	N/A		N/A	N/A		N/A			N/A	
N/A	N/A		N/A	N	I/A	N/A			N//	4
CT Name/Signa				RCT Su	ipervisor N	Name/S	Signatur	e/Date:	1-24-1	12
Poteet Dw	wisq a	8	3/26/11	Tours	11/1/1812	11/	1	1//1)

8/26/11

RCT signature indicates portable instruments checked IAW RC-300-2.1

Page: 2 of 3

Survey # RSR -100ISS-11-0 457

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Remova (dpm/100	able cm²)	_		(dpm/	otal 100 cm²)	
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β–γ	β–γ C-F
0	All Areas Surveyed	N/A	N/A	N/A	N/A	<500	7	<5000	10
#	East Wall	N/A	N/A	N/A	N/A	<500	7	9K	10
#	North Wall	N/A	N/A	N/A	N/A	<500	7	2-5K	10
#	West Wall	N/A	N/A	N/A	N/A	<500	7	2-5K	10
#	All Other Areas Surveyed	N/A	N/A	N/A	N/A	<500	7	<1K	10
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Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	Y			
		\		

RADIOLOGICAL SURVEY RECORD (continuation)

Page: 3 of 3
Survey # RSR 100ISS-11- 045

Additional Information (Drawing, Map, Etc.)

Tast Well west way # #5K # 2K \$ 4. # 0 开 Hak 圤 \Diamond # \bigcirc \bigcirc SK 开 \bigcirc 0 \bigcirc O# G # # 0 \mathcal{O} # 0 O 0

		RADIOL	OGICAL S	LIBV	EV DEC	OP	`			
			- COLONE		e, ne,	JUNL) ;	Pag	je <u>1</u>	of 2
Type of Survey ☐ Routine ~	h			ress			iurvey # RSR —			_
RWP # / Rev. #		İ	Date :	1	ime		ocation	, , , , , ,		
100 155 -10 Description	-001 01	<u> </u>	Oct 17 20	·r	0900	/.	W-1051	1 70'		
	Prior TO W	me saw	70	105N						
References: (e.g., SRT	A, ASER, LASER, RSP, Wor	k Package)								
TA:-07	- SK-07	R7								.•
		18 					/25	N 70'		
LAD	DEL ACCESS									
PLANT			0.5 ma/4				7 1			
Contamination	High ntamination RBA Radi Area	ological Buffer	T THE COURT [AG]	Air Sample Location	MA Radioactive	RA F	Radiation	High IRA Radiatio	VHRA	Very High Radiation
O Technical # Direct M	Large Area T Transferable	General Area Do	and I would to the tead	ings are γ do	OSE Contact	<u> </u>	, iea	Area	Soil	Area Radiological
Smear # Direct M	Wipe I Transieraoi	Meter Reading (mR/hr)	rates in units of otherwise i		30 cm N	(mRemyhr)		R/hr) SCA Co	ntamination Area	Boundary xx
	T		Instrum	ents						
Model	ID#		Cal Due Date	Model			ID#		Cal Dat	
12 24.3	2079 0	045	5-24-12	NA						0
ko 25	1470		4-4-12	a/4						
No				NA						
RCT Name/Signs	ature/Date:				upervisor N	Vame/S	Signatura	e/Date		
Tack Conract, 20	or 17 2011							M		

Page: 2 of 2

Survey # RSR - 100155 -11 - 0542

Contamination Measurement information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Removidpm/10	vabie 00 cm²)			To (dpm/1	otal 100 cm²)	
lo.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
)	TOUR SO SMEARS OF WALLOWS SUFFICES	۷20	7	21200	10	N/A -			
N/A					-				
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	AABV			_					
	UUPI				-				
	Unless stated attenuise in the "Refere					<u> </u>			107

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

·	Show all work.	77 - 1 0111633 116164.		
	Contact R	leadings	30 cm R	
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
*/a	*)			
	**			
	·			

RADIOLOGICAL SURVEY RECORD Page 1 Type of Survey Survey # ☐ Routine RSR - 100ISS-11-0556 RWP # / Rev. # Date Time Location 100ISS-10-013/Rev 03 10-23-11 1700 100N/105N/C elevator Description Completion of work progress survey during grouting operations References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

TA-07-SR-07/R 7

Completed third day of grouting from C elevator. Completed de-mobilization on C elevator. Survey results shown are current radiological conditions found after de-mobilization was complete. Air sampling was continuous through out grouting and demobilization. Demobilization included removal of tools and equipment from elevator and tent. Postings on the C elevator were ARA, HCA, HRA; while postings in the tent included those previously mentioned and CA. See diagram for posting locations.

COPY

CA C	ontamina Area	ltion	ICA	High Contamination Area	RBA Rad	liological Buffer Area	ARA R	Airborne adioactivity Area	[AS]	Air Sample Location	RMA	Radioa Material		RA	Radiation Area	HRA	Hiç Radia Are	ation VHRA	Very High Radiation Area
0	Fechnical Smear	# Di	irect	M Large Area Wipe	T Transferab	General Are Rates =Unco Meter Rea (mR/h	rrected ading		units of	ings are γ mR/hr un ndicated		Contact 30 cm		Neutrons mRem/hr)	Δ	Micro Rem (μR/hr)	SCA	Soil Contamination Area	Radiologic Boundary xx
								Ins	trum	ents									
	Мо	del			ID#			Cal Du Date			Mod	lel			ID:	#		Cal I Da	
22	224-1	/43-	93		0149/01	93		07-25-	12						N				
	RO-	20			1295			06-15-	12										
	N/	Α			N/A	<u> </u>		N/A							A	7 v/vi *4v u			
	T Nar			nature/Da	, ,)-28-11				RCT	Sup	erviso	or N	ame/	Signat	ure/Da	ate:/	1/01/2	0/1

WCH-TM-R006a (06/30/2009)

RCT signature indicates portable instruments checked IAW RQ

Michael T. Wright - RCS

Page: 2 of 5

Survey # RSR - 100ISS-11-0556

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

<u> </u>	T		•	· · · · · · · · · · · · · · · · · · ·					
No.	Description of			ovable 00 cm²)				Total /100 cm²)	
	Item or Location	α	α C-F	β-γ	β–γ C-F	α	α C-F	β–γ	β-γ C-F
1	Threshold, West end of elevator	56	7	6110	10	N/A	N/A	N/A	N/A
2-5	Rail, center of elevator, max	42	7	2000	10	N/A	N/A	N/A	N/A
6	Threshold, East end of elevator	56	7	10,000	10	N/A	N/A	N/A	N/A
7	Platform stop/brace, West end	210	7	74,000	10	N/A	N/A	N/A	N/A
8, 9	Hand rail, max	42	7	4590	10	N/A	N/A	N/A	N/A
10	Platform stop/brace, East end	266	7	103,000	10	N/A	N/A	N/A	N/A
11-15	Grating, max	42	7	4590	10	N/A	N/A	N/A	N/A
16	Wall, West end	112	7	36,000	10	N/A	N/A	N/A	N/A
17	Wall, middle	119	7	26,000	10	N/A	N/A	N/A	N/A
18	Wall, East end	77	7	48,950	10	N/A	N/A	N/A	N/A
19	Control panel face	21	7	6000	10	N/A	N/A	N/A	N/A
20	Inside track rail	49	7	16,000	10	N/A	N/A	N/A	N/A
21	Floor plate	49	7	24,000	10	N/A	N/A	N/A	N/A

Unless stated otherwise in the "References" section, exempted β - γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are \leq 10 times the β - γ contamination levels shown above.

Corrected Dose Rate Calculations

1 - 4	Contact	Readings	30 cm Readings					
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR				
	N							
		Α						

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination

Page: <u>3</u> of <u>5</u>

Survey # RSR <u>100ISS-11-0556</u>

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

ļ	Circi	ed values indic	ate Remov	adie β contami	nation in m	ırad/hr β			_
No.	Description of Item or Location		Remo (dpm/1	vable 00 cm²)			To (dpm/10	tal 00 cm²)	
		α	α C-F	β-γ	βγ C-F	α	α C-F	β–γ	β-γ C-F
22	Floor plate	35	7	9000	10	N/A	N/A	N/A	N/A
23,24	Elevator entry floor, max	21	7	1000	10	N/A	N/A	N/A	N/A
25,26	"I" beam, max	70	7	14,000	10	N/A	N/A	N/A	N/A
27	Shelf	28	7	1000	10	N/A	N/A	N/A	N/A
28	Wall	28	7	1000	10	N/A	N/A	N/A	N/A
29	"I" beam	<20	7	3500	10	N/A	N/A	N/A	N/A
30	Floor	<20	7	1500	10	N/A	N/A	N/A	N/A
31	Top of fencing	21	7	2000	10	N/A	N/A	N/A	N/A
32	Floor	<20	7	<1000	10	N/A	N/A	N/A	N/A
							 		
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¹Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Page:_4_ of 5 **RADIOLOGICAL SURVEY RECORD (continuation)** Survey # RSR 100ISS-11-0556 **Additional Information** (Drawing, Map, Etc.) **C ELEVATOR** (During grout pour) 5 5 INSTRUMENT PANEZ 15 8 C ELEVATOR-(AS) 12 20 7 REACTOR FACE 25 8 4 AREA DOSE RATES PRIOR TO 2.5 GROUT POUR. ALL READINGS IN MR/HR 1.5 TO TENT 2 NOT TO SCALE

Page: 5 of 5 **RADIOLOGICAL SURVEY RECORD (continuation)** Survey # RSR 100ISS-11-0556 **Additional Information** (Drawing, Map, Etc.) **C ELEVATOR** (Post grout pour) (3°) 15 Melter INSTRUMENT (2) PANEZ IOMR/HO C ELEVATOR. (1) 6 MR/HR 1 REACTOR FACE 7MR/AR (12) (4) 15MR/HE 10 Malne 18MR/HR AREA DUSTINGS HCA/HRA/ARA 27 TO TENT -(24) NOT TO SCALE

WCH-TM-R006c (03/15/2006)

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			R	ADIOL	.OGI	ICAL	. SU	JRVE	EY	REC	00	RD			Page	1 '	of <u>2</u>
Type of S	•	•			F71 14								rvey #		11 22	20	
Routi	····		NA .			ork P	rogre					+		- •	-11-23	33	
RWP#/	Rev.	# NA			Date	2/16/2	2011		ime _100	n			cation ON/10)5N/10	9N		
Descripti	on : F	inal verific	ation survey	<u>+</u>	L	21 1012	<u></u>		_100	Δ		<u></u> .					
Reference	es: (e.	g., SRTA, ASE	R, LASER, RSP, W	Vork Package))	•		 									
TA-07-S	3-07-	7															<u> </u>
		d direct ar owing are	nd removable as:	e contami	inatio	n surv	eys o	n the f	loor,	walls	be	low 6	ft. and	i suspi	ect area	S	
Build	ing 10)5N room:	ss building (- s 7, 8 and 9	•			rooms	s 172,1	73,	and 1	74	@ 5 f	t. elev	ation.			
			elevation.														
			tion to (40 ft.) amination fou						ft.) e	elevat	ion	to 10:	5N ro	of.			
	0,,,,,,,	CD10 00111	211111200111100	,,,,d. 000	pago	_ 101 1	Counc	••									
														· · · · ·		,	
CA Contamina	HC.	High A Contamination Area	RBA Radio	Area	ARA Red	irborne Seactivity Area	[AS]	Air Sample Location	L	Radios Materials		RA	Radiation Area	HRA	High Radiation Area	VHRA	Very High Rediation Area
O Technical Smear	# Direc	M Large Area Wipe	T Transferable	General Area Rates =Uncor Meter Read (mR/hr)	rrected i	rates in	units of	ings are y mR/hr un indicated		Contact 30 cm	N,	Neutrons (mRem/hr)	Δ	Micro Rem (µP/hr)	SCA Con	Soli amination Area	Rediclogical Boundary xx
								ents									
Мо	del		ID#		'	Cal Du Date			Mod	let				ID#			al Due Date
2224-3	/ 43-9	3 SCLL	B-0009 / DTI	LLP-0097	7 12	2/07/2	012	2360 / 43-93 SCLL8-0078/ I			8/ DTL	LP-017	9 09/0	08/2012			
N	A		NA			NA			N/	4				NA			NA
N	A		NA			NA			N/	4				NA			NA
RCT Na J. Powe		gnature/C)		19/1	16/201	4		-				_	ture/p	ate:	420	2011
J. FOWE	15		Liker	-	12/	10/201		Micl	ıae	I T. '	Wr	ight	- R	CS/	1.1.	til.	

WCH-TM-R006a (06/30/2009)

RCT signature indicates portable instruments checked IAW RC-200-2.

Page: 2 of 2

Survey # RSR -100N-11-2333

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

		Values indica				•					
No.	Description of	(Remov dpm/10			Total (dpm/100 cm ²)					
110.	item or Location	α	α C-F	βγ	β-γ C-F	α	α C-F	βγ	β-γ C-F		
0,#	Room 172 (1/8) piping 6ft. high	<20	7	<1K	10	< 500	7	31K	10		
0,#	Room 9 (6 inch drain pipe)	<20	7	<1K	10	<500	7	6.5K	10		
0,#	Room 7 (4 inch piping)	<20	7	<1K	10	<500	7	6K	10		
Ο,#	All Smears and directs	< 20	7	< 1K	10	<500	7	<5K	10		
			N								
	·			A							

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm Readings					
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR				

	N							
		Α						

RA	DIOLOGICAL SUI	RVEY RECO		Page 1 of 2						
Type of Survey ☐ Routine N/A	Work Progress		Survey # RSR – 100N-	11-2334						
RWP#/Rev.# 100N-10-001 02	Date December 16, 20	Time 11 1030	Location 100N / /05N /	109N						
Description 105N/109N verification surveys, +28' th References: (e.g., SRTA, ASER, LASER, RSP, Work Pack TA-07-SR-07 R7										
REST OF REST O										
CA Contemination HCA Contemination RBA Redictor	ical Buffer ADA Parisonthitu (AC) Ar	Sample RMA Radioactive collon		High Very High tediation Area VHRA Radiation						
	Seneral Area Dose lates =Uncorrected Meter Reading (mR/hr) All radiation reading rates in units of mill otherwise ind	Whrunless 30 cm N	Neutrons (mRem/hr) A Micro Rem S (µR/hr)	Soli Rediological Boundary Area X						
	Instrume	nts								
Model ID#	Cal Due Date	Model	ID#	Cal Due Date						
2224-3/DTNE2 0164/0012	5-17-12	Nh -								
RO20 1474	4-21-12	NA -								
NA		N/A		4/12/20/2011						
RCT Name/Signature/Date: Acilical Jack Corrad, December 16, 2011	bust he flake firstige	RCT Supervisor I	Name/Signature/Dat right - RCS	chart [http:						

Page: 2 of 2

Survey # RSR - 100N-11-2334

Contamination Measurement information¹

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of		Remov (dpm/10	rabl e 0 cm²)		Total (dpm/100 cm ²)					
140.	Item or Location	α	α C-F	βγ	β~γ C-F	α	α C-F	βγ	β-γ C-F		
0	Smears on floor and walls to 8'	<20	7	<1000	10	N/A -					
N/A											
								•			
				•							
			/								
					/						

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	leadings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF ≈ DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				
		He I		
		· · · · · · · · · · · · · · · · · · ·		
•				
1				

									-
		RADIOL	.OGICAL	SURV	EY REC	ORD	Pa	age /	of Z
Type of Survey		· · · · · · · · · · · · · · · · · · ·				0		.ge	
Routine	N/A		☑ Work Pro	nress		Survey RSR -	# - 100N -	7-00	746
RWP # / Rev. #			Date		Time	Locatio			
) <u>(a</u>		1/6/20		1030	3	1 Room		301
Description E	-1 6 23 6 6 6		202 and	201			1.4		
	a) Survey or SRTA, ASER, LASER, AS			301					
8	-07 Rev.7								
		1 Elevator 302 0 0 309	(3) (6) (4) (4) (9) (3)	(T) (2) (2m)		. C			
CA Contamination HCA Con	High ttamination RBA Rai Area	diological Buffer Area	Airborne A Radioactivity [AS Area	Air Sample Location	RMA Radioactive Materials Are	ea RA Radiation	Hig HRA Radia Are	tion VHRA	Very High Radiation Area
O Technical # Direct M	Large Area T Transferat	General Area D Rates =Uncorrec Meter Readin (mR/hr)	rates in units	adings are γ of mR/hr unless indicated	dose Contact ess 30 cm N	Neutrons (mRem/hr) Δ	Micro Rem (μR/hr) SCA	Soil Contamination Area	Radiological Boundary
			Instru	ments		<u>-</u>		-	1
Model	ID#		Cal Due Date		Model	ID	#	Cal Dat	
2224-3 /07680	SCLLB- 0147 10	TNE2-004)	07/19/201	2					-
)				
					4				
RCT Name/Signa	ture/Date:	eu oil	06/2012	Police	Supervisor (Vame/Signat Vright - F	ure/Date:	01/06/2	2012

WCH-TM-R006a (06/30/2009)

RCT signature indicates portable instruments checked IAW RC-300-2.1

Page: 2 of 2 Survey # RSR - 100N - 12 - 00 46

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of			Remov (dpm/10	/able 0 cm²)		Total (dpm/100 cm²)						
No.	Ite	m or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F			
1-21	ALL	Smears	L 20	7	LIK	p	N/4			_2_			
								-					
					N								
	*1				A								
	في	A Comment							<u></u>				
		/											
		ad otherwise in the "Ref											

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Show all work.	CF = 1 unless noted.		
	Contact R	leadings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		1		
		A		
				,

-										**************************************				
		<u> </u>	RADIO	LOGIC	AL S	SURV	VEY R	EC	ORE)		Paç	ge <u>1</u>	of 2
Type of Survey ☑ Routine	/ 			₩ orl	k Prog	ress		-		urvey SR		0ISS-1	2-006	2
RWP # / Rev. # 100ISS-12-001	00			Date May 31,	2012		Time 0945		Lo	ocation	1		or 7 +5	
Description Corridor 7 surve References: (e.g., SRT TA-07-SR-07 F	A, ASER, L	g Intermech ASER, RSP, Worl	clean up (Package)											
N plant				(6))		(9)	> /	40'					
Au Aress	<°5			-		2	1		28'					
ALL Areas EXCEPT 115							1 		14'	, ,	80M Rad 10M Rad covered a ic, Rad La	i Beta with		
scaffolding entry begine here (SOP) CA		0	@	1 (3)	\$ 0 1	4 ② ③	Stair 8 up 14 steps		door					
ARA/CA Step Off Pad (SOP) located on scaffold.	<u> </u>		Filtered Water The section in the deck (grati	dicated is below	,				_	\ <u>\</u>	(> Corr 7	5'	>
A Contamination HCA Con	High ntamination Area	RBA Radio	logical Buffer Area	Airborne RA Radioactivity Area	[AS]	Air Sample Location	RMA Radios	active Is Area	RA R	adiation Area	HRA	High Radiation	VHRA	Very High Radiation
Technical # Direct M	Large Area Wipe	T Transferable	General Area D Rates =Uncorre Meter Readir (mR/hr)	rates in	ion readi units of herwise in	ngs are y om mR/hr unle	dose Contact	N N	leutrons (Rem/hr)	Δ	Micro Rem (μR/hr)	SCA Cor	Soil stamination Area	Area Radiological Boundary
				Ins	trum	ents		<u> </u>				<u> </u>		
Model		ID#		Cal Du Date		ı	Model			ID #			Cal D	
RO20		1508		4-3-13	3		N/A -							
2224-3/43-93		0081/0069)	10-24-1	12		N/A ~	于						
N/A -]		N/A -	干						
ACT Name/Signa ack Conrad, May	ann	<u> </u>				RCT S	Superviso	or Na	me/Si	ignate	ire/Da		31-1	

WCH-TM-R006a (06/30/2009)

/RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Page: 2 of 2

Survey # RSR - 100ISS-12-0062

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of	(Remov (dpm/10	/able 0 cm²)				otal i 00 cm²)	
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β–γ	β–γ C-F
1	floor, as shown on page 1	<20	7	1500	10	N/A			
2	floor, as shown on page 1	<20	7	2000	10	N/A —			
3	floor, as shown on page 1	<20	7	1500	10	N/A			
4	floor, as shown on page 1	<20	7	3000	10	N/A			
5	floor, as shown on page 1	<20	7	3000	10	N/A			
6	floor, as shown on page 1	<20	7	6000	10	N/A —			
7	floor, as shown on page 1	<20	7	5000	10	N/A -			
8	floor, as shown on page 1	<20	7	1500	10	N/A			
9	floor, as shown on page 1	<20	7	3000	10	N/A -			
0	floor, walls, horizontal surfaces	<20	7	<1000	10	N/A -			ļ
N/A					K	N/A -			
					1	N/A -			
_					->	N/A -			-

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact F	leadings	30 cm R	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mP/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				

		RADIOLO	GICAL	SURV	EY REC	ORD	P	age 1	of 2
Type of Survey Routine	DI W15		Work Pro	gress		Survey RSR	# - 100 I s	5-12-	0070
RWP # / Rev. # 100 I ss ~ Description	12-001 00	1 -	June 5		ime 1035	Location /00 A) 105N	Con 7	
CLOSE OU References: (e.g., SRT	A, ASER, LASER, ASP, Work	Core 7	STAIR	8 ms	ASSOCIA	TED AVEN	, luch	40'	
	- SR-07 R								
N plant Scaffolding corridor scaffolding entry begins here (SOP) CA	O O	'ND .	(B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	5	tair 8 steps	28' 14' Plass FLOO LASL	ALL DOSS NLESS OTT C. COVERS R. RAS E APPLIED	HUUSE A	
ARA/CA Step Off Pad (SOP) located on scaffold.		Filtered Water line (The section indicate the deck (grating)	(6")		-		Corr		_
CA Contamination HCA Cor	High Itamination RBA Radiol Area	ogical Buffer Area	Airborne adioactivity [AS]	Air Sample Location	MA Radioactive Materials Are	a RA Radiation	Hiq HRA Radii Are	ation VHRA	Very High Radiation Area
O Technical # Direct M	Large Area T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)		adings are γ do of mR/hr unles e indicated	30cm N	Neutrons (mRem/hr) Δ	Micro Rem (μR/hr) SCA	Soil Contamination Area	Radiological Boundary xx
			Instru	nents					
Model	ID #		Cal Due Date	М	odel	ID :	ID#		ue e
R020	1508		4-3-13	NIA					
224-3 43-93 NA	0081 006	9 1	0-24-12	NA					
RCT Name/Signa	ture/Date:			PCT S	Inonviore **	lam = /0!	(F) :		
Tack Conrad, CH-TM-R006a (06/30	ture/Date: was 5 2012 1/2009)			RCT Supervisor Name/Signature/Date: Compared to the content of					

RADIOLOGICAL SURVEY RECORD

Page: 2 of 2

Survey # RSR - 100 ISS - 12 - 0070

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Remo (dpm/10	vable 00 cm²)			(dpm/	otal 100 cm²)	
No.	Item or Location	α	α C-F	β-γ	β–γ C-F	α	α C-F	β-γ	β-γ C-F
2	FLOOL	< 2>	7	5000	lo	Nh -			
15	FLOOR	< 20	7	1500	13	1			
16	FLOOL	220	7	2000	10				
17	FLOOR (TAKEN ON PLASTE)	£20	7	4000	10		<u> </u>		
24	FLOOR	×20	7	1500	10				
0	LOCATIONS PAGE 1	< 20	7_	× 1000	12				
NA									
								\	
 I									

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact R	leading s	30 cm Readings			
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR		
NA						

			RADIC	LOGIC	CAL	SUR	/EY R	ECOF	RD:		Pac	ge <u>1</u>	of ;
Type of Surve				⊠w₀	rk Pro	gress	· .		Surve RSR	y # — 100			
RWP # / Rev. 100ISS-12-00				Date 07/17/	12		Time		Locat 100N	ion /105N			
Description Corridor 22 Cl	occourt.						1100			10014			
References: (e.	g., SRTA, AS	SER, LASER, RS	P, Work Packa	ge)	 .		- (1	26	71	nc	//		
TA07 SR07 07	<u></u>					-		سلا	Щ		_		
	0	۲0،5	0	Li	EDGE	0				0			
#***								0			<u> </u>	10	
	0.5	0	#	S)			1,5	•	,	40,5	
N.		00	O .	0	4,5	.	0		0		0	0.5	
3 P		⊕# ⊕#	<i>S</i>	0		0	C		(20.5		0	
			0		0) 			
			ī	v —	→					_/	<u> </u>		
	10.4			·									
Contamination HCA Co	High ontamination Area	RBA Radio	7.104	Airborne RA Radioactivit Area	<u> </u>	COGGO	IMA Radioad Materials	Area RA	Radiation Area	HRA	High Radiation Area	VHRA	Very Hig Radiatio Area
Technical # Direct M	Large Area Wipe	T Transferable	General Area Rates =Uncorre Meter Readi (mR/hr)	ected rates	ation read in units of otherwise i	lings are γ d mR/hr unle: indicated	OSE Contact SS 30 cm	N Neutrons (mRem/hr)	Δ	Micro Rem (μR/hr)	SCA Cont	Soil amination Area	Radiologic Boundary xx
	· · · · · · · · · · · · · · · · · · ·				strum			· · · · · · · · · · · · · · · · · · ·	<u>. </u>	 -l-			
Model		ID#		Cal D Date		Ν	lodel		ID	#	T	Cal D	
Model 3			18	12/12/12		DP6BD		D	TNC2	-0116	-	01/05/	
	HP-210T DTEB5-0046			02/13/13		NA			NA		NA		
2224-3	Namo/Signature/Date						NA		NA			NA	
an Kropla	1 Kropla Sen m, 14h 07/17/						upervisor	Name/s	Signati	ure/Date	•	-18-	-/7
I-TM-R006a (06/3	80/2009)				RCT sign	nature indic	ates porta	ble insti	uments c	hecked	IAW RC	300-2.	

RADIOLOGICAL SURVEY RECORD

Page: 2 of 2

Survey # RSR - 100ISS-12-0173

Contamination Measurement Information¹

Circled values indicate Removable β contamination in mrad/hr β

	Description of		Remo dpm/10	vable 0 cm²)		Total (dpm/100 cm²)			
No.	Item or Location	α	α C-F	β-γ	β–γ C-F	α	α C-F	β–γ	β-γ C-F
# O	All smears and diverse replace listed below.	13	7	<1000	10	<500	7	<5000	10
1	Floor	₹20	7	<1000	10	55 K	7	9K	10
2	Floor	<20	7	<1000	10	<500	7	8K	10
3	Floor	<20	7	<1000	10	<500	7	10K	10
4	Floor	<20	7	<1000	10	<500	7	10 K	10
5	Floor	<20	7	<1000	10	<500	7	40K	10
NA -									
						a	7		V
						(シピ	プレ	
									NA NA

Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

	Contact	Readings	30 cm l	Readings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
NA _				
				NA

		ER	C RAD	IDLO	GICAL S	URV	EY REC	ORD		Pa	ge 1	of IL.
/pe of Survey (ch		only) Routii	ne 🗵	Work	Progress		Shipment	F		NXx-9	8-0	258
WP # / Rev. #) K × ~ 032 / ₁				Date 2-10-	- 98	i i	Fime 1400 _		ocati hua l	on <u>//05 k</u>	M.s	1764177
STUDINGS STUDINGS CONSULT SOURCE S												
Unless noted, con									nt #:]	1 n -97-3	R-3	
Contemination	High Contamin		Radiological		Airborne		Radioactive Materials Area	Radiation -R- Area	-HR-	ligh Radiation Area	-VHR-	Very Hig Radiation
-C- Area -H- Technical # Dire	Area		Suffer Area (mixt) (mix		General Area Do: Incorrected Met (mR/hr)	er Reading	Micro Rem (μR/hr)	N Neutrons (mRem/hr	[AS]	Air Sample Location	-SCA	Soil Contamin Ares
					Instru	ment	s					
Model	Serial	#	Source (Initial)	/ C	al Due Date	1	Model	Serial	#	Source (Initial)		Cal Du Date
E-600/HP210T	1137/012		N	6-2-9	18/9-29-98	Ro-	3	0089		ml	-	11-12-9
PAm	001	Ì	nd	1-	6-99		tector	0012		WA		7-31-9
RCT Name/Sign	nature/Da	ate:			1/2.7/1/98	1	Superviso D.L. HILL	r Name/S	ignati	ure/Date:		योः ये

Contamination Measurement Information

Circled values in Removable β -y denotes mrad/hr β

Unless otherwise noted, use the following Correction Factors:

List other Correction Factors, instruments, and source documents:

Source smaller than probe size:

Source larger than probe size:

PAM = 7

P-11 probe = 10

PAM = 14P-11 probe = 50

	Description of	(Remo dpm/10	vable 00 cm ²)		((To dpm/10	tal 00 cm ²)	
No.	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
2	Rod Cover	< 2.6	7	LK	10				\angle
3	4 1/			١K		W			
7	1] []			l K					
8	1) 11			ΙK					
16	Floor Covering			3 k					
12	Rod Cover			8 K					
13	17 17			3 K				A	
14	11)1			2 K					
15	Grating			3 K					
16	Scabolling		1	١ĸ					

Corrected Dose Rate Calculations

	Contact F	Readings	30 cm Re	eadings
Location	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) wc x cf = DR	β (mrad/hr) (WÒ-WC) X CF = DR	γ (mR/hr) wc x cf = DR
	N			
·	n			
	A			
			-	

ERC RADIOLOGICAL SURVEY RECORD (continuation) Contamination

Page 3 of 11

Survey # RSR- NRx-98-025

Contamination Measurement Information

Circled values in Removable β - γ denotes mrad/hr β

Unless otherwise noted, use the following Correction Factors:

List other Correction Factors, instruments, and source documents:

Source smaller than probe size:

Source larger than probe size:

PAM = 7 P-11 probe = 10

PAM = 14 P-11 probe = 50

No.	Description of		Remo dpm/10	vable 10 cm ²)		(0	To dpm/10	otal 00 cm ²)	
	Item or Location	α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
17	Ledge to Sump	420	7	3 K	10				
18	Catch pan to heat Exch.			20 K					
19	n n n n			110K		N			
20	Floor			ĴΚ					ļ
26	Tuble			1 k					
	value			1k				/	
28	catchpan to Rad			<u>lk</u>					<u> </u>
31	Floor			115			<u>/_</u>	14	
37	On Plug Cover (Ledge)		1-11	l k					
	Floor			4 K		/_			
39	Floor		1-1-1	215					
40	Floor	1 4		ı k	4				
			-	···					
	N N								

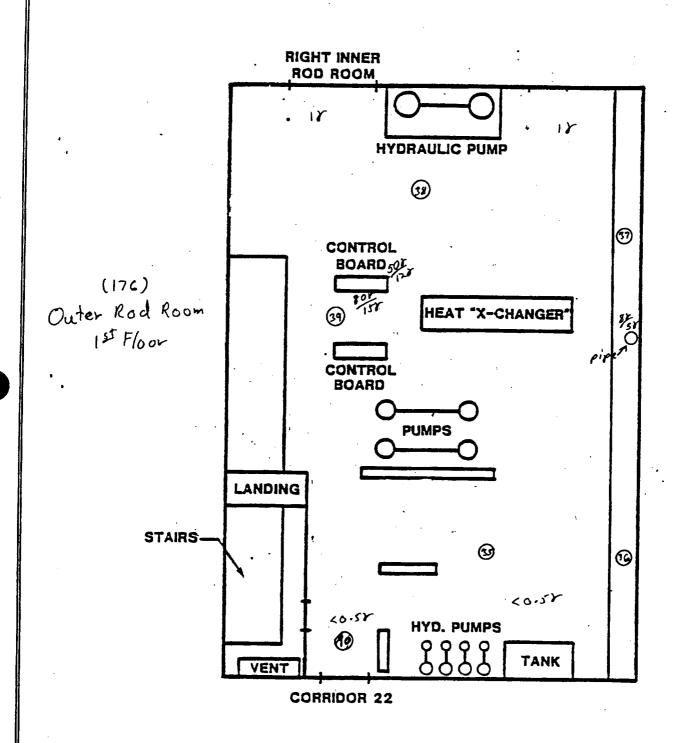
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Page <u>4</u> of <u>11</u>

Survey # RSR- WRx 91-0258

Additional Information

(Drawing, Map, Etc.)



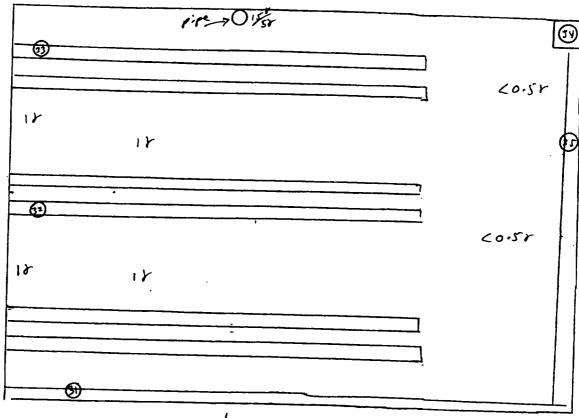
Page 2 of 11

Survey # RSR-NRx-98-0258

Additional Information

(Drawing, Map, Etc.)

Outer Rod Room



2nd Floor

Page <u>6</u> of <u>//</u>

Survey # RSR- WRx-98-0258

Additional Information

(Drawing, Map, Etc.)

Octer Rod Room (176)

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3rd Floor		

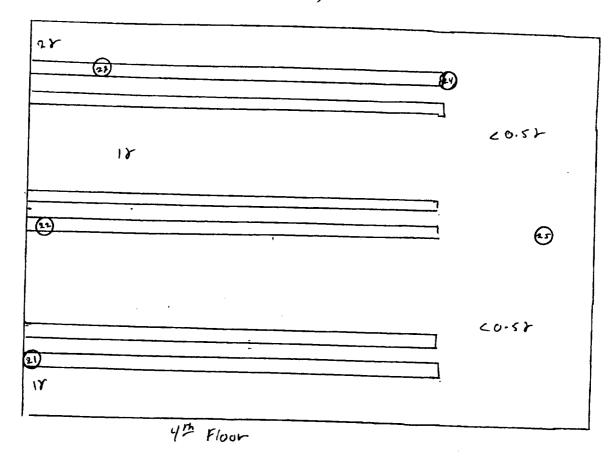
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Survey # RSR- NRx - 98 -0258

Additional Information

(Drawing, Map, Etc.)

Outer Rod Room (176)



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Survey # RSR-N/Ry-98-0258

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room (177)2008 2002 SCASOLD 0 78 72 58 38 10r First Floor

Page 9 of 11

Survey # RSR-NR,-98-0259

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room (177).

100r	(19)				
	IOY			58°	3}
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Second Moor

Page <u>10</u> of <u>11</u>

Survey # RSR-WRy-98-0258

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room (177)

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	108	
		1.5}
254		-
	<u> </u>)

Third Sloor

Survey # RSR- WRx-98-0258

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room 177

(3)	•	
107	58	18
@		
IOY		(f)
0	57	

fourth Level

3.5 <u>109-N INDEX OF PHOTOS</u>

				Index of Photos
Photo	No.	Date	Description	Elev.
1		11/30/11	105-109N North Side Aerial Photo	Varies
2	2	11/30/11	105-109N South Side Aerial Photo	Varies
3	3	11/30/11	105-109N East Wall Aerial Photo	Varies
4	ļ	01/30/11	105-109N West Wall Aerial Photo	Varies
5		06/15/11	109N South Wall	Varies
6		06/15/11	109N East Wall	Varies
7		10/27/11	105-109N East Wall	Varies
8		10/27/11	105N East Wall	Varies
9		10/27/11	105N Northeast Wall	Varies
10		10/27/11	105N North Wall	Varies
1.		10/27/11	105N Northwest Wall	Varies
12		05/04/11	109N Rm.104 South Wall Looking North	0'-0"
1:		05/04/11	109N Rm.104 Floor Looking North	0'-0"
14		05/04/11	109N Rm.104 East Wall	0'-0"
15		05/04/11	109N Rm.104 West Wall	0'-0"
16		05/04/11	109N Rm.104 Ceiling Looking North	0'-0"
17		05/04/11	109N Rm.104 South Wall Looking South	0'-0"
18		05/04/11	109N Rm.103 Door Looking West	0'-0"
19		05/04/11	109N Rm.103 Door Looking West 109N Rm.103 Northeast Corner-2 ea. Lead Blankets	0'-0"
20		05/04/11	109N Rm.103 North Floor Looking West	0'-0"
2		05/04/11	109N Rm.103 North Floor Looking West	0'-0"
			<u> </u>	0'-0"
22		05/04/11	109N Rm.103 South Floor Looking West	0'-0"
23		05/04/11	109N Rm.103 North Wall Looking West	0'-0"
24		05/04/11	109N Rm.103 West Wall North End	0'-0"
25		05/04/11	109N Rm.103 South Wall Looking West	0'-0"
26		05/04/11	109N Rm.103 West Wall South End	0'-0"
27		05/04/11	109N Rm.103 East Wall Looking South	0'-0"
28		05/04/11	109N Rm.103 East Wall Looking North	0'-0"
29		05/04/11	109N Rm.103 North Ceiling Looking West	
30		05/04/11	109N Rm.103 North Ceiling Looking East	0'-0"
31		05/04/11	109N Rm.103 South Ceiling Looking West	0'-0"
32		05/04/11	109N Rm.103 South Ceiling Looking East	0'-0"
33		05/04/11	109N Rm.106 Door Looking East	0'-0"
34		05/04/11	109N Rm.106 Floor Looking East	0'-0"
35		05/04/11	109N Rm.106 South Wall Looking East	0'-0"
36		05/04/11	109N Rm.106 East Wall Looking East	0'-0"
37		05/04/11	109N Rm.106 North Wall East End	0'-0"
38		05/04/11	109N Rm.106 West Wall	0'-0"
39		05/04/11	109N Rm.106 Ceiling Looking East	0'-0"
40		05/04/11	109N Rm.106 Ceiling Looking West	0'-0"
41		05/04/11	109N Rm.105 Floor	0'-0"
42		05/04/11	109N Rm.105 Ceiling	0'-0"
43		05/04/11	109N Rm.105 West Wall	0'-0"
44		05/04/11	109N Rm.105 East Wall	0'-0"
45		05/04/11	109N Rm.105 Sample Hood Looking North	0'-0"
46		09/01/10	109N Rm.307 East Wall	25'-0 1/2"
47		09/01/10	109N Rm.307 South Wall East End	25'-0 1/2"
48		09/01/10	109N Rm.307 South Wall Middle	25'-0 1/2"
49		09/01/10	109N Rm.307 South Wall West End	25'-0 1/2"
50		09/01/10	109N Rm.307 North Wall East End	25'-0 1/2"
51	1	09/01/10	109N Rm.307 North Wall Middle-East	25'-0 1/2"

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Index of Photos-	109N
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Dhata Na	Dete	Description	Index of Photos- 10
Photo No.	Date	Description	Elev.
52 53	09/01/10	109N Rm.307 North Wall Middle-West	25'-0 1/2"
53	09/01/10	109N Rm.307 North Wall West End	25'-0 1/2"
54	09/01/10	109N Rm.307 West Wall South End	25'-0 1/2"
55 50	09/01/10	109N Rm.307 West Wall North End	25'-0 1/2"
56 	09/01/10	109N Rm.307 Ceiling Looking East	25'-0 1/2"
57	09/01/10	109N Rm.307 Ceiling Looking West	25'-0 1/2"
58	09/01/10	109N Rm.307 Equipment	25'-0 1/2"
59	09/01/10	109N Rm.307 Floor Looking East	25'-0 1/2"
60	09/01/10	109N Rm.307 Floor Drain	25'-0 1/2"
61	04/19/11	109N Rm.307 East End Looking West	25'-0 1/2"
62	04/19/11	109N Rm.307 Middle Looking West	25'-0 1/2"
63	04/19/11	109N Rm.307 West End Looking NW	25'-0 1/2"
64	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
65	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
66	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
67	09/01/10	109N Rm.208 Sink At East Wall	12'-8 1/2"
68	09/01/10	109N Rm.208 Floor Drain At East End	12'-8 1/2"
69	09/01/10	109N Rm.208 South Wall East End	12'-8 1/2"
70	09/01/10	109N Rm.208 South Wall West End	12'-8 1/2"
7 1	09/01/10	109N Rm.208 North Wall East End	12'-8 1/2"
72	09/01/10	109N Rm.208 North Wall Looking West	12'-8 1/2"
73	09/01/10	109N Rm.208 Floor Looking West	12'-8 1/2"
74	09/01/10	109N Rm.208 Ceiling Looking West	12'-8 1/2"
75	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
76	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
77	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
78	04/19/11	109N Rm.208 Floor Drain	12'-8 1/2"
79	04/19/11	109N Rm.208 Floor Looking West	12'-8 1/2"
80	04/19/11	109N Rm.208 Floor Drain Sealed-West End	12'-8 1/2"
81	04/19/11	109N Rm.208 West End Cabinet-Sealed Drain Line	12'-8 1/2"
82	04/19/11	109N Rm.208 West End Looking North	12'-8 1/2"
83	09/01/10	109N Stair#7 Ground Level	0'-0"
84	09/01/10	109N Stair#7 Ground Level	0'-0"
85	09/01/10	109N Stair#7 Ground Level	0'-0"
86	09/01/10	109N Stair#7 El.12'-8 1/2" Looking Down	12'-8 1/2"
87	09/01/10	109N Stair#7 El.12'-8 1/2" Looking Up	12'-8 1/2"
88	09/01/10	109N Stair#7 El.25'-0 1/2" Looking Down	25'-0 1/2"
89	09/01/10	109N Stair#7 El.25'-0 1/2" Landing	25'-0 1/2"
90	02/15/12	109N Access Bldg. North Side	0'-0"
91	02/15/12	109N Access Bldg. Door	0'-0"
92	02/15/12	109N Access Bldg. Entry Door	0'-0"
93	02/15/12	109N Access Bldg. South Wall Above Grade	0'-0"
94	02/15/12	109N Access Bldg. East Wall Above Grade	0'-0"
95	02/15/12	109N Access Bldg. South Wall Below Grade	Minus16'-0"
96	02/15/12	109N Access Bldg. Stairway Looking East	Minus16'-0"
97	02/15/12	109N Access Bldg. West Wall Below Grade	Minus16'-0"
98	02/15/12	109N Access Bldg. Shield Door RAD Signs	Minus16'-0"
99	02/15/12	109N Access Bldg. Level Switches	Minus16'-0"
100	02/15/12	109N Access Bldg. North Wall Above Grade	0'-0"
100	02/13/12	109N Area Under SSE Roof-Access Door from 105N	40'-0"
101	02/07/12	109N Area Under SSE Roof-Access Door from 105N	40'-0"
102	02/01/12	TOUR AIDE ONL NOOFACCESS DOOR HOLL TOOK	- 0

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Subcontract No. J027807A00 105/109N SSE

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	Photo No.	Date	Description	Elev.
_			Description 109N Area Under SSE Roof-North Wall East End	40'-0"
	103	02/07/12		40'-0"
	104	02/07/12	109N Area Under SSE Roof-E.Vent Valve Struct.Look E.	
	105	02/07/12	109N Area Under SSE Roof-East Wall Ctr.	40'-0"
	106	02/07/12	109N Area Under SSE Roof-SW Corner	40'-0"
	107	02/07/12	109N Area Under SSE Roof-South Wall E.End	40'-0"
	108	02/07/12	109N Area Under SSE Roof-N.Wall E. of Pressurizer	40'-0"
	109	02/07/12	109N Area Under SSE Roof-E.Wall of Pressurizer	40'-0"
	110	02/07/12	109N Area Under SSE Roof-West 1/2 Roof	40'-0"
	111	02/07/12	109N Area Under SSE Roof-West Side of Pressurizer	40'-0"
	112	02/07/12	109N Area Under SSE Roof-N.Wall E. of Pressurizer	40'-0"
	113	02/07/12	109N Area Under SSE Roof-Ctr.Vent Valve Struct.	40'-0"
	114	02/07/12	109N Area Under SSE Roof-W. Vent Valve Struct.	40'-0"
	115	02/07/12	109N Area Under SSE Roof-West Wall	40'-0"
	116	02/07/12	109N Area Under SSE Roof-South Wall West End	40'-0"
	117	02/07/12	109N Area Under SSE Roof-South Wall Ctr.	40'-0"
	118	09/21/11	109N SSE Roof- Tie-In to South Side of 105N	Varies
	119	09/21/11	109N SSE Roof- Tie-In to S. Side of 105N & Pressurizer	Varies
	120	09/21/11	109N SSE Roof- Expansion Jt. Cover at Pressurizer	Varies
	121	04/06/11	109N Pressurizer SSE Roof-NW Corner	Varies
	122	04/06/11	109N Pressurizer SSE Roof-SW Corner	Varies
	123	04/06/11	109N Pressurizer SSE Roof-East Side	Varies
	124	04/06/11	109N Pressurizer SSE Roof-Bent Plate Closure	Varies
	125	04/06/11	109N Pressurizer SSE Roof-Sealed Penetrations	Varies
	126	04/06/11	109N Pressurizer SSE Roof-Cover Plate	Varies
	127	04/06/11	109N Pressurizer SSE Roof-North Side	Varies
	128	04/06/11	109N Pressurizer SSE Roof-NW Corner	Varies
	129	04/06/11	109N Pressurizer SSE Roof-West Side	Varies
	130	04/06/11	109N Pressurizer SSE Roof-SE Corner	Varies
	131	04/06/11	109N Pressurizer SSE Roof-SE Corner	Varies
	132	04/06/11	109N Pressurizer SSE Roof-South Side	Varies
	133	04/06/11	109N Pressurizer SSE Roof-SW Corner	Varies
	134	04/06/11	109N Pressurizer SSE Roof-Looking NW	Varies
	135	04/06/11	109N Pressurizer SSE Roof-Looking North	Varies
	136	04/06/11	109N Pressurizer-Top of Roof	Varies
	137	04/20/11	109N Pressurizer SSE Roof-East Side	Varies
	138	04/20/11	109N Pressurizer SSE Roof-North Side	Varies
	139	04/20/11	109N Pressurizer SSE Roof-West Side	Varies
	140	04/20/11	109N Pressurizer SSE Roof-South Side	Varies
	141	04/20/11	109N Pressurizer SSE Roof-South Side Downspout	Varies
	142	04/20/11	109N Pressurizer SSE Roof-NW Side	Varies
	143	06/26/12	109N W.Wall N.End Pourbacks	Varies
	144	07/10/12	109N W.Wall Below Grade Looking North	Varies
	145	07/10/12	109N W.Wall Below Grade Pourback (10" BD Line)	Varies
	146	07/10/12	109N W.Wall Below Grade Looking South	Varies
	147	07/10/12	109N W.Wall Below Grade S.End	Varies
	148	07/10/12	109N W.Wall Below Grade SW Corner	Varies

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3.6 <u>105-N INDEX OF PHOTOS</u>

Disease Nie	ъ.	B	Index of Pho
Photo No.	Date	Description	Elev.
201	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
202	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
203	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
204	04/14/10	105N Rm.4 South Wall	Minus 16'-0"
205	04/14/10	105N Rm.4 South Wall	Minus 16'-0"
206	04/14/10	105N Rm.4 West Wall	Minus 16'-0"
207	04/14/10	105N Rm.4 West Wall	Minus 16'-0"
208	04/14/10	105N Rm.4 North Wall	Minus 16'-0"
209	04/14/10	105N Rm.4 North Wall	Minus 16'-0"
210	04/14/10	105N Rm.4 Floor-West Side	Minus 16'-0"
211	04/14/10	105N Rm.4 Floor-West Side	Minus 16'-0"
212	04/14/10	105N Rm.4 Floor-East Side	Minus 16'-0"
213	04/14/10	105N Rm.4 Electrical Panel Ctr.	Minus 16'-0"
214	04/14/10	105N Rm.4 Ceiling-Looking North	Minus 16'-0"
215	04/14/10	105N Rm.4 Ceiling-Looking South	Minus 16'-0"
216	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
217	04/14/10	105N Rm.5 Floor & Equipment- Looking SE	Minus 16'-0"
218	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
219	04/14/10	105N Rm.5 Electrical Equipment	Minus 16'-0"
220	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
221	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
222	04/14/10	105N Rm.5 Floor & Equipment-SE Corner	Minus 16'-0"
223	04/14/10	105N Rm.5 North Wall-Looking West	Minus 16'-0"
224	04/14/10	105N Rm.5 Norht Wall-Looking East	Minus 16'-0"
225	04/14/10	105N Rm.5 South Wall Lead Int.Doors-Looking East	Minus 16'-0"
226	04/14/10	105N Rm.5 South Wall Lead Int.Doors-Looking West	Minus 16'-0"
227	04/14/10	105N Rm.5 Ceiling-Looking NE	Minus 16'-0"
228	04/14/10	105N Rm.5 Ceiling-Looking NE	Minus 16'-0"
229	04/14/10	105N Rm.5 Ceiling-Looking West	Minus 16'-0"
230	04/14/10	105N Rm.5 South Wall Lead Shot In Instr.Tray	Minus 16'-0"
231	04/14/10	105N Rm.5 South Wall Lead Shot In Instr. Tray	
232	04/14/10	•	Minus 16'-0"
232	04/14/10	105N Rm.5 Rupture Monitor EquipInterior	Minus 16'-0"
	04/14/10	105N Rm.5 Rupture Monitor EquipInterior	Minus 16'-0"
234		105N Rm.5 Rupture Monitor EquipExterior	Minus 16'-0"
235	04/14/10	105N Rm.5 Rupture Monitor EquipExterior	Minus 16'-0"
236	04/14/10	105N Rm.5 Lead Blankets Over Pipe-SW Corner	Minus 16'-0"
237	04/14/10	105N Rm.5 Lead Blankets Over Pipe-SW Corner	Minus 16'-0"
238	04/14/10	105N Rm.5 South Wall 14 ea. Lead Doors 3"x2'x8'	Minus 16'-0"
239	04/14/10	105N Rm.5 South Wall 14 ea. Lead Doors 3"x2'x8'	Minus 16'-0"
240	04/14/10	105N Rm.5 South Wall Lead Doors	Minus 16'-0"
241	04/14/10	105N Corridor 3-Looking West	Minus 16'-0"
242	04/14/10	105N Corridor 3-Looking East	Minus 16'-0"
243	04/14/10	105N Corridor 3 Ceiling-Looking West	Minus 16'-0"
244	04/14/10	105N Corridor 3 Ceiling-Looking East	Minus 16'-0"
245	02/15/12	105N Rm.7-Looking South	Minus 15'-0"
246	02/15/12	105N Rm.7-Looking West	Minus 15'-0"
247	02/15/12	105N Rm.7-Looking North	Minus 15'-0"
248	02/15/12	105N Rm.8 MCC Cabinets-Looking South	Minus 15'-0"
249	02/15/12	105N Rm.8-Looking West	Minus 15'-0"
250	02/15/12	105N Rm.8-West Wall North End	Minus 15'-0"
251	02/15/12	105N Rm.8-SE Corner	Minus 15'-0"

252	Photo No.	Date	Description	Elev.
253 02/15/12 105N Rm.91-Looking North Minus 15'-0" 254 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int. Walls 0'-6" 256 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int. Walls 0'-6" 257 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grtg, Walk 0'-6" 258 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grtg, Walk 0'-6" 259 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wlkwy w/Lead Blank. 0'-6" 260 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wlkwy w/Lead Blank. 0'-6" 261 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wlkwy w/Lead Blank. 0'-6" 262 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 263 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 264 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 265 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 266 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" </td <td>252</td> <td>02/15/12</td> <td></td> <td></td>	252	02/15/12		
254 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int.Walls 0'-6" 255 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int.Walls 0'-6" 257 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grig, Walk 0'-6" 258 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grig, Walk 0'-6" 259 10/23/11 105N Rm.23 C Elevator Pit-Grig, Wikwy w/Lead Blank. 0'-6" 260 10/23/11 105N Rm.23 C Elevator Pit-Grig, Wikwy w/Lead Blank. 0'-6" 261 10/23/11 105N Rm.23 C Elevator Pit-Grig, Wikwy w/Lead Blank. 0'-6" 262 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets 0'-6" 263 10/23/11 105N Rm.23 C Elevator Pit 0'-6" 264 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 265 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 266 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 267 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0"	253	02/15/12		
255 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int.Walls 0'-6" 256 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grtg, Walk 0'-6" 257 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grtg, Walk 0'-6" 258 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wilkwy wLead Blank 0'-6" 259 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wilkwy wLead Blank 0'-6" 260 10/23/11 105N Rm.23 C Elevator Pit-Grtg, Wilkwy wLead Blank 0'-6" 261 10/23/11 105N Rm.23 C Elevator Pit-Overhead View 0'-6" 262 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 263 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 264 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 265 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 266 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 267 10/23/11 105N Rm.23 C Elevator Platform 0'-6" 270 10	254	10/23/11		
256 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Int.Walls 0'-6" 257 10/23/11 105N Rm.23 C Elevator Pit-Looking West at Grtg. Walk 0'-6" 258 10/23/11 105N Rm.23 C Elevator Pit-Grtg.Wilkwy w/Lead Blank. 0'-6" 260 10/23/11 105N Rm.23 C Elevator Pit-Grtg.Wilkwy w/Lead Blank. 0'-6" 261 10/23/11 105N Rm.23 C Elevator Pit-Grtg.Wilkwy w/Lead Blank. 0'-6" 262 10/23/11 105N Rm.23 C Elevator Pit-Overhead View 0'-6" 263 10/23/11 105N Rm.23 C Elevator Pit 0'-6" 264 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 265 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 266 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 267 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 268 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0" 269 10/23/11 105N Rm.23 C Elevator Pit-Grout & Lead Blankets Minus 2'-0"	255	10/23/11		0'-6"
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279 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 280 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 281 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 282 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 283 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 284 10/23/11 105N Rm.23 C Elevator-Elect. Cable for Level Switches 0'-6" 285 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator Clevator Platform-Looking East at Walk				
280 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 281 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 282 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 283 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 284 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches-NW Corner 0'-6" 285 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Zone I Level Switches Installed-NW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner 0'-6" <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
281 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 282 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 283 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 284 10/23/11 105N Rm.23 C Elevator-Elect.Cable for Level Switches 0'-6" 285 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Rm.23 T East of Rm.23 C Elevator 0'-6" 292				
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283 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 284 10/23/11 105N Rm.23 C Elevator-Elect. Cable for Level Switches 0'-6" 285 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Zone I Level Switches-NW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 292 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 292 10/23/11 105N Zone I Level Switches Installed-NW Corner 0'-6" 293 10/23/11 105N Zone I Level Switches Installed-NW Corner 0'-6" <td< td=""><td></td><td></td><td></td><td></td></td<>				
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285 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 292 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 293 10/23/11 105N Rm.23 C Elevator Ratio Reset of Rm.23 C Elevator Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.29 Front Face-Looking South (Over				
286 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 287 10/23/11 105N Elect. Cable for Level Switches-NW Corner 0'-6" 288 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 292 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" <		10/23/11		
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288 10/23/11 105N Zone I Level Switches/BrktNW Corner 0'-6" 289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 292 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" <td>287</td> <td>10/23/11</td> <td>105N Elect. Cable for Level Switches-NW Corner</td> <td>0'-6"</td>	287	10/23/11	105N Elect. Cable for Level Switches-NW Corner	0'-6"
289 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 292 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	288	10/23/11		
290 10/23/11 105N Zone I Level Switches Installed-NW Corner Minus 16'-0" 291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 292 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	289	10/23/11	105N Zone I Level Switches Installed-NW Corner	
291 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 292 10/23/11 105N Ext.Shld.Door #231 East of Rm.23 C Elevator 0'-6" 293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"			105N Zone I Level Switches Installed-NW Corner	
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293 10/23/11 105N Rm.23 C Elevator Platform-Looking East at Walk 0'-6" 294 10/23/11 105N Rm.23 C Elevator Platform-East Side 0'-6" 295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	292	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
295 10/23/11 105N Rm.23 C Elevator Platform-Looking West 0'-6" 296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	293	10/23/11	105N Rm.23 C Elevator Platform-Looking East at Walk	0'-6"
296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	294	10/23/11	105N Rm.23 C Elevator Platform-East Side	0'-6"
296 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	295	10/23/11	105N Rm.23 C Elevator Platform-Looking West	0'-6"
297 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	296	08/25/11	-	0'-6"
298 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 299 08/25/11 105N Rm.29 Front Face-Looking South (Overview) 0'-6" 300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	297	08/25/11	- • • • • • • • • • • • • • • • • • • •	0'-6"
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300 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6" 301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	299	08/25/11	• • • • • • • • • • • • • • • • • • • •	0'-6"
301 08/25/11 105N Rm.29 Front Face-Looking East (Overview) 0'-6"	300	08/25/11	- , , , , , , , , , , , , , , , , , , ,	0'-6"
	301	08/25/11	<u> </u>	0'-6"
	302	08/25/11	105N Rm.29 Front Face Shld.Door#408-Looking South	28'-3"

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Photo No.	Date	Description	Elev.
303	08/25/11	105N Rm.29 Front Face-Looking West (Overview)	0'-6"
304	08/25/11	105N Rm.29 Front Face-Looking West (Overview)	0'-6"
305	08/25/11	105N Rm.29 Front Face Elect.Conduit-Looking South	0'-6"
306	08/25/11	105N Rm.29 Front Face-Elect.Conduit at East Wall	0'-6"
307	08/25/11	105N Rm.29 Front Face-Elect.Conduit at South Wall	0'-6"
308	08/25/11	105N Rm.29 Front Face-Elect.Conduit at Penetration	0'-6"
309	08/25/11	105N Rm.29 Front Face-Grouted Penetrations at Bott.	0'-6"
310	08/25/11	105N Rm.29 Front Face-Grouted Penetration E Side	0'-6"
311	08/25/11	105N Rm.29 Front Face-Grouted Penetration at Top	0'-6"
312	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
313	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
314	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
315	08/25/11	105N Rm.29 Front Face-Floor Looking West	0'-6"
316	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
317	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
318	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
319	08/25/11	105N Rm.29 Front Face-Base Angle Looking West	0'-6"
320	08/25/11	105N Rm.29 Front Face-Bent Plate Joint Closure	0'-6"
321	09/21/11	105N Rm.29 Front Face-Siding Enclosure (Exterior)	0'-6"
322	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
323	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
324	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
325	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
326	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
327	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
328	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
329	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
330	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
331	08/03/11	105N Rm.35 Pipe Tunnel-Concrete Pourback N.End	Minus 21'-0"
332	10/25/10	105N Rm.37 NW Corner Doorway	Minus 10'-0"
333	10/25/10	105N Rm.37 Electrical Equipment-West Wall N.End	Minus 10'-0"
334	10/25/10	105N Rm.37 Rupture Monitor Equipl-West Wall S.End	Minus 10'-0"
335	10/25/10	105N Rm.37 Rupture Monitor EquipLooking East	Minus 10'-0"
336	10/25/10	105N Rm.37 Rupture Monitor EquipLooking East	Minus 10'-0"
337	10/25/10	105N Rm.37 North Wall	Minus 10'-0"
338	10/25/10	105N Rm.37 MCC EquipEast Wall (North End)	Minus 10'-0"
339	10/25/10	105N Rm.37 East Wall (South End)	Minus 10'-0"
340	10/25/10	105N Rm.37 SE Corner (Mechanical Rm.)	Minus 10'-0"
341	10/25/10	105N Rm.37 SE Corner (Mechanical Rm.)	Minus 10'-0"
342	10/25/10	105N Rm.37 Lead Doors-South Wall Looking West	Minus 10'-0"
343	10/25/10	105N Rm.37 Lead Doors-South Wall Looking West	Minus 10'-0"
344	10/25/10	105N Rm.37 Lead Doors-South Wall Looking East	Minus 10'-0"
345	10/25/10	105N Rm.37 Rupture Monitor EquipLooking East	Minus 10'-0"
346	10/25/10	105N Rm.37 Inside Ctr. Rupture Monitor #8 (Empty)	Minus 10'-0"
347	10/25/10	105N Rm.37 Inside Perm. Rupture Monitor #8 (Empty)	Minus 10'-0"
348	10/25/10	105N Rm.37 Outside Rupture Monitor #8	Minus 10'-0"
349	10/26/10	105N Corridor #4-Looking South	Minus 10'-0"
350	10/26/10	105N Corridor #4-Looking South	Minus 10'-0"
351	10/26/10	105N Corridor #4-East Side Looking South	Minus 10'-0"
352	10/26/10	105N Corridor #4-South End Looking South	Minus 10'-0"
353	10/26/10	105N Corridor #4-South End at Door to Rm.#37	Minus 10'-0"

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	Photo No.	Date	Description	Elev.
-	354	10/26/10	105N Corridor #4-West Side Looking South	Minus 10'-0"
	355	07/26/12	105N Rm.172-Exterior View Access Door With Awning	5'-0"
	356	07/26/12	105N Rm.172-Exterior View Access Door With Awning	5'-0"
	357	02/15/12	105N Rm.172-East Wall Access Door	5'-0"
	358	02/15/12	105N Rm.172-South Wall (East End)	5'-0"
	359	02/15/12	105N Rm.172-South Wall (West End)	5'-0"
	360	02/15/12	105N Rm.172-Temp.Switches (South Wall)	5'-0"
	361	02/15/12	105N Rm.172 Shid.Door-West Wall	5'-0"
	362	02/15/12	105N Rm.172-Shld.Door RAD Signs-West Wall	5'-0"
	363	02/15/12	105N Rm.172 R Elevator-North Wall	5'-0"
	364	07/26/12	105N Rm.172 Door to Stair#6 w/Weld Plate-North Wall	5'-0"
	365	02/15/12	105N Rm.172 Elect.& Instr.Panels-East Wall	5'-0"
	366	02/15/12	105N Rm.173-Looking South	5'-0"
	367	02/15/12	105N Rm.174-Looking South	5'-0"
	368	02/15/12	105N Rm.302-Looking South at Entry Door	16'-6"
	369	02/15/12	105N Rm.302-Looking West	16'-6"
	370	02/15/12	105N Rm.302 Entry Door at Stair#6-Looking North	16'-6"
	371	02/15/12	105N Rm.302 Shield Door-West Wall	16'-6"
	372	02/15/12	105N Rm.302 Shield Door RAD Postings-West Wall	16'-6"
	373	02/15/12	105N Rm.#302 R Elevator-Looking North	16'-6"
	374	02/15/12	105N Rm.#302 Backside of Room-Looking South	16'-6"
	375	02/15/12	105N Rm.#301 Doorway-Looking South	16'-6"
	376	02/15/12	105N Rm.#301 Looking South	16'-6"
	377	02/15/12	105N Rm.#301 Cover Plate Over Doorway-East Wall	16'-6"
	378	02/15/12	105N Rm.301-Looking West	16'-6"
	379	02/15/12	105N Rm.301-Looking North	16'-6"
	380	02/15/12	105N Rm.402 Doorway-Looking South	28'-3"
	381	02/15/12	105N Rm.402-Looking South from Doorway	28'-3"
	382	02/15/12	105N Rm.402-Looking West	28'-3"
	383	02/15/12	105N Rm.402-Looking North at Doorway	28'-3"
	384	02/15/12	105N Rm.402 R Elevator-Looking North	28'-3"
	385	02/15/12	105N Rm.401-Looking South	28'-3"
	386	02/15/12	105N Rm.401-Looking East	28'-3"
	387	02/15/12	105N Rm.401-Looking North	28'-3"
	388	02/15/12	105N Rm.401-Looking West	28'-3"
	389	02/15/12	105N Rm.401 Shield Door-West Wall	28'-3"
	390	02/15/12	105N Rm.401 Shield Door RAD Signs-West Wall	28'-3"
	391	02/07/12	105N Rm.501&502-Looking South form Stairway #6	40'-0"
	392	02/07/12	105N Rm.502-East Wall Looking South	40'-0"
	393	02/07/12	105N Rm.502-West Wall	40'-0"
	394	02/07/12	105N Rm.502 R Elevator-NW Corner	40'-0"
	395	02/07/12	105N Rm.501-East Wall	40'-0"
	396	02/07/12	105N Rm.501-West Wall	40'-0"
	397	02/07/12	105N Rm.501South Wall & Door to 109N-Looking W.	40'-0"
	398	02/07/12	105N Rm.503-North Wall Looking North	40'-0"
	399	02/07/12	105N Rm.503-East Wall Looking North	40'-0"
	400	02/07/12	105N Rm.503-West Sidel Looking South	40'-0"
	401	02/07/12	105N Rm.503 Doorway & Stair#6/6A Landing	40'-0"
	402	02/07/12	105N Rm.520-North End Looking North	51'-0"
	403	02/07/12	105N Rm.520-South End Looking South	51'-0"
	404	02/07/12	105N Rm.610-Looking North	60'-6"

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_	Photo No.	Date	Description	Elev.
	405	02/07/12	105N Rm.601-Looking South	60'-6"
	406	02/07/12	105N Rm.613 Access Door from Rm.#601 & R Elevat.	60'-6"
	407	02/07/12	105N Rm.602-Looking East	60'-6"
	408	02/07/12	105N Rm.602-Looking West	60'-6"
	409	02/07/12	105N Rm.603-Looking East Toward Rm.#602	60'-6"
	410	02/07/12	105N Rm.603-Looking East Toward Rm.#613	60'-6"
	411	02/07/12	105N Rm.603-Looking West	60'-6"
	412	02/07/12	105N Rm.603-Looking South at Door to 109N Pressur.	60'-6"
	413	02/07/12	105N Rm.606-East Side Looking North	60'-6"
	414	02/07/12	105N Rm.606-NW Corner	60'-6"
	415	02/07/12	105N Rm.606 Cover Plate at Door OpngNW Corner	60'-6"
	416	02/07/12	105N Rm.606-West Side Looking South	60'-6"
	417	02/07/12	105N Rm.611-Looking West	60'-6"
	418	02/07/12	105N Rm.612 Doorway from Rm.#607-Looking East	60'-6"
	419	02/07/12	105N Rm.607 Passive HEPA Filter-S.Side Looking W.	60'-6"
	420	02/07/12	105N Rm.607 Passive HEPA Filter in Zone I Duct Wall	60'-6"
	421	02/07/12	105N Rm.607Shld.Door at E. Wall of Rm.#608	60'-6"
	422	02/07/12	105N Rm.607-NE Corner	60'-6"
	423	02/07/12	105N Rm.607-Center Looking West	60'-6"
	424	02/07/12	105N Rm.607-West Side Looking West	60'-6"
	425	02/07/12	105N Rm.609 NW Corner-Looking West	60'-6"
	426	02/07/12	105N Rm.609NW Corner-Looking East	60'-6"
	427	02/15/12	105N R Elevator Pit-Looking from Bottom of Stair#6	Minus 24'-0"
	428	02/15/12	105N R Elevator Pit-Looking SW	Minus 24'-0"
	429	02/15/12	105N Stair#6 Level Switches-Bottom of Stair	Minus 24'-0"
	430	02/15/12	105N Stair#6 Level Switches-N. Wall Bottom of Stair	Minus 24'-0"
	431	02/15/12	105N Stair#6 +5' Landing-Looking from Above	5'-0"
	432	02/15/12	105N Stair#6 +40' Landing-Looking Down	40'-0"
	433	02/15/12	105N Stair#6A +60' Landing-Looking Up at Temp.Swit.	60'-6"
	434	02/15/12	105N Stair#6A Temp.Switches-Top of Stair	60'-6"
	435	02/15/12	105N Stair#6A +60' Landing-Looking Down to +40'	60'-6"
	436	09/08/11	105N Area Under Main SSE Roof-SW Corner	Varies
	437	09/08/11	105N Area Under Main SSE Roof-W.Side S.End	Varies
	438	09/08/11	105N Area Under Main SSE Roof-Pressurizer Conn.	Varies
	439	09/08/11	105N Area Under Main SSE Roof- SW Corner Conn.	Varies
	440	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
	441	09/08/11	105N Area Under Main SSE Roof-Looking East	Varies
	442	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
	443	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
	444	09/08/11	105N Area Under Main SSE Roof-Cover Plate at Opng.	Varies
	445	09/08/11	105N Area Under Main SSE Roof-Center Looking E.	Varies
	446	09/08/11	105N Area Under Main SSE Roof-Hatch Cover	Varies
	447	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
	448	09/08/11	105N Area Under Main SSE Roof-NW Corner	Varies
	449	09/08/11	105N Area Under Main SSE Roof-Cover Plate at Opng.	Varies
	450	09/08/11	105N Area Under Main SSE Roof-West Side Center	Varies
	450 451	09/08/11	105N Area Under Main SSE Roof-N.Side Center 105N Area Under Main SSE Roof-N.Side Looking E.	Varies Varies
	451 452		y	
		09/08/11	105N Area Under Main SSE Roof-N.Side Looking W.	Varies
	453 454	09/08/11	105N Area Under Main SSE Roof-Cover Plates W.End	Varies
	454 455	09/08/11	105N Area Under Main SSE Roof-NW Corner Look N.	60'-6"
	455	09/08/11	105N Area Under Main SSE Roof-NW Corner Look E.	60'-6"

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Photo No.	Date	Description	Elev.
456	09/08/11	105N Area Under Main SSE Roof-N.Side Center	Varies
457	09/08/11	105N Area Under Main SSE Roof-N.Side Center	Varies
458	09/08/11	105N Area Under Main SSE Roof-N.Side Above Face	60'-6"
459	09/08/11	105N Area Under Main SSE Roof-N.Side Above Face	60'-6"
460	09/08/11	105N Area Under Main SSE Roof-N.Side at Front Face	60'-6"
461	09/08/11	105N Area Under Main SSE Roof-N.Side at Front Face	0'-6"
462	09/08/11	105N Area Under Main SSE Roof-N.Side Looking E.	Varies
463	09/08/11	105N Area Under Main SSE Roof-Cover Plates E.End	Varies
464	09/08/11	105N Area Under Main SSE Roof-East Side Center	Varies
465	09/08/11	105N Area Under Main SSE Roof-Stair#6A Cover Plate	Varies
466	09/08/11	105N Area Under Main SSE Roof-E.Side Looking S.	Varies
467	09/08/11	105N Area Under Main SSE Roof-Center Looking E.	Varies
468	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
469	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
470	10/13/11	105N Main SSE Roof-Looking South at Pressurizer	Varies
471	10/13/11	105N Main SSE Roof-Flashing at Pressur. NW Corner	Varies
472	10/13/11	105N Main SSE Roof-Flashing at Ridge & Concrete	Varies
473	10/13/11	105N Main SSE Roof-Looking North	Varies
474	10/13/11	105N Main SSE Roof-Looking West	Varies
475	10/13/11	105N Main SSE Roof-Looking East	Varies
476	10/12/11	105N Main SSE Roof-Gutter at West Side	Varies
477	10/12/11	105N Main SSE Roof-Gutter Downspout & Support	Varies
478	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking SW	40'-0"
479	08/01/11	105N Area Under Rod Rm. SSE Roof-N.End Look W.	40'-0"
480	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Plate	40'-0"
481	08/01/11	105N Area Under Rod Rm. SSE Roof-Low Eave West	40'-0"
482	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking SW	40'-0"
483	08/01/11	105N Area Under Rod Rm. SSE Roof-South End	40'-0"
483 484	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Pl. at NW	40'-0"
485	08/01/11	105N Area Under Rod Rm. SSE Roof-N.Wall Siding	40'-0"
486	08/01/11	105N Area Under Rod Rm. SSE Roof-Floor Pl at NE	40'-0"
487	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking East	40'-0"
488	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Pl. East	40'-0"
		105N Area Under Rod Rm. SSE Roof-Door at SECorn.	40'-0"
489	08/01/11	105N Area Under Rod Rm. SSE Roof-S.End Lookg.W.	40'-0"
490 401	08/01/11	105N Area Under Rod Rm. SSE Roof-S. Wall Siding	40'-0"
491	08/01/11	105N Rod Rm. SSE Roof-North Wall Siding	Varies
492	08/02/11		Varies
493	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	
494	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	Varies
495	08/02/11	105N Rod Rm. SSE Roof-Flashing Splice	Varies
496	08/02/11	105N Rod Rm. SSE Roof-South Wall Siding	Varies
497	08/02/11	105N Rod Rm. SSE Roof-Looking North	Varies
498	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	Varies
499	08/18/11	105N Rod Rm. SSE Roof-North Wall Siding	Varies
500	08/18/11	105N Rod Rm. SSE Roof-Framing at NE Corner	40'-0"
501	08/18/11	105N Rod Rm. SSE Roof-Framing at NE Corner	40'-0"
502	08/18/11	105N Rod Rm. SSE Roof-West Wall Siding	Varies
503	08/18/11	105N Rod Rm. SSE Roof-West Wall Siding	Varies
504	08/18/11	105N Rod Rm. SSE Roof-Looking South	Varies
505	08/18/11	105N Rod Rm. SSE Roof-Flashing at Northeast Corner	Varies
506	08/18/11	105N Rod Rm. SSE Roof-Gutter at Main Roof W.Side	Varies

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Photo No.	Date	Description	Elev.
507	08/18/11	105N Rod Rm. SSE Roof-Gutter at Main Roof W.Side	Varies
508	03/12/12	105N Main & Rod Rm. SSE Roof-Looking South	Varies
509	06/05/12	105N Rm.507-East End at Top of Stair#8	43'-6"
510	06/05/12	105N Rm.507-Looking East	43'-6"
511	06/05/12	105N Rm.507-Looking West	43"-6"
512	06/05/12	105N Rm.507-Ceiling Looking West	43'-6"
513	06/05/12	105N Rm.175-View Window & Platform-Looking NW	33'-9"
514	06/05/12	105N Rm.175-View Window & Platform-Looking NE	33'-9"
515	06/05/12	105N Stair#8-Looking Down from Platform	33'-9"
516	06/05/12	105N Rm.175-Intermediate Equipment-Looking North	15'-0"
517	06/05/12	105N Rm.175-North Wall	Varies
518	06/05/12	105N Stair#8-Looking East	1'-0"
519	06/05/12	105N Rm.175-Looking East	1'-0"
520	06/05/12	105N Rm.175-Looking West	1'-0"
521	06/05/12	105N Rm.175-Discharge Tunnel Cover Plates	1'-0"
522	06/05/12	105N Corridor#7-East End Cover Plate	5'-0"
523	06/05/12	105N Corridor#7-East End Looking West	5'-0"
524	06/05/12	105N Corridor#7-Center Looking West	5'-0"
525	06/05/12	105N Corridor#7-Center Looking West	5'-0"
526	06/05/12	105N Corridor#7-Center Looking East	5'-0"
527	06/05/12	105N Corridor#7-West End Looking West	5'-0"
528	06/05/12	105N Corridor#7-Ceiling West End	5'-0"
529	06/05/12	105N Corridor#7-West End Looking East	5'-0"
530	06/05/12	105N Corridor#7-FW Pipe at West End	5'-0"
531	06/05/12	105N Corridor#7-West End Looking East	5'-0"
532	07/17/12	105N Corridor#22-Shld.Door at East Wall	0'-0"
533	07/17/12	105N Corridor#22-Looking North	0'-0"
534	07/17/12	105N Corridor#22-Looking North	0'-0"
535	07/17/12	105N Corridor#22-Looking NE	0'-0"
536	07/17/12	105N Corridor#22-Looking South	0'-0"
537	07/17/12	105N Corridor#22-Looking SE	0'-0"
538	07/17/12	105N Corridor#22-Looking SW	0'-0"
539	07/17/12	105N Corridor#22-Floor Looking South	0'-0"
540	07/19/12	105N Corridor#22 North Wall & N. Wall of Rod Rm.	Varies
541	07/19/12	105N Corridor #22 W. Wall & W. Wall of Rod Rm.	Varies
542	07/19/12	105N West Wall Below Grade-N. of Rod Rm.	Varies
543	07/19/12	105N West Wall Above Grade-N. of Rod Rm.	Varies
544	07/19/12	105N W. Wall Below Grade Between Rod Rm. & 109N	Varies
545	07/19/12	105N W. Wall Above Grade Between Rod Rm. & 109N	Varies